

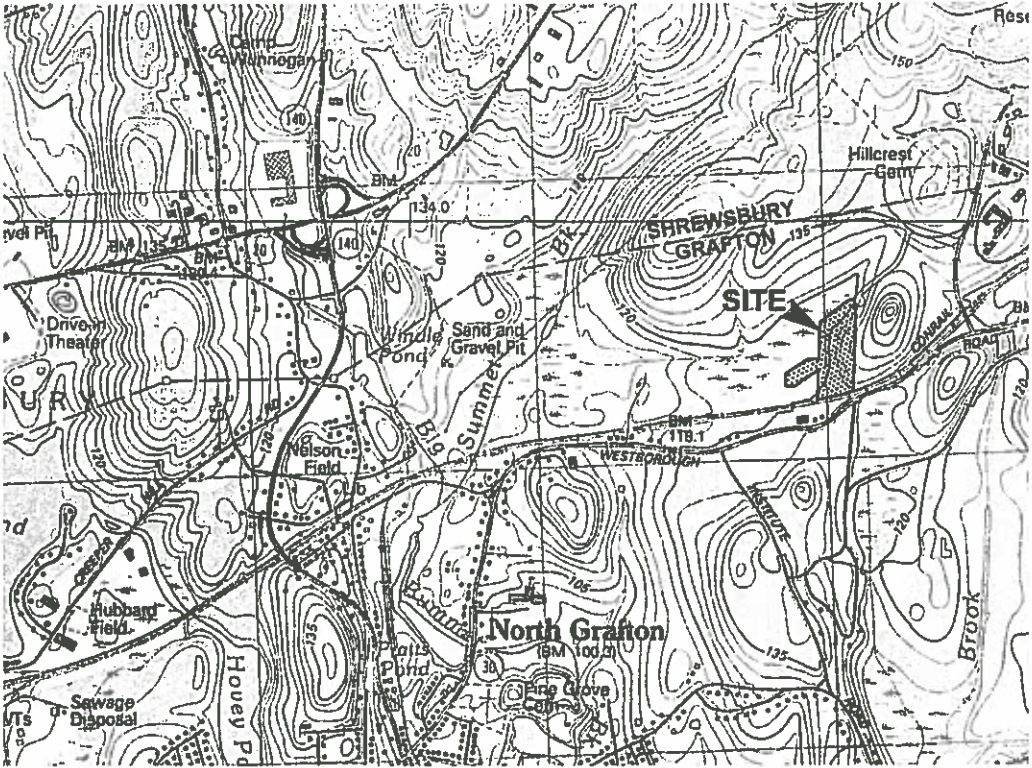
8 Millennium Drive

Site Plan In The Town Of Grafton, Massachusetts

FILE

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LOCUS MAP
SCALE: 1"=1000'

PREPARED BY:

HERITAGE DESIGN GROUP

PLANNERS • SURVEYORS • ENGINEERS
LANDSCAPE ARCHITECTS

ONE MAIN STREET
WHITINSVILLE, MASSACHUSETTS 01588
TEL 508-266-2066 • FAX 508-266-2067
A LIMITED LIABILITY COMPANY



FOR SUBMISSION ONLY

Applicant
Nature's Remedy of Massachusetts, Inc.
497 Hookset Road, Suite 190
Manchester, New Hampshire 03104

Owner of Record
85 Green Street Limited Partnership
PO Box 55
Worcester, Massachusetts 01613-0055

May 8, 2017

REVISIONS

NO.	DATE	DESCRIPTION	BY
4	8/14/17	CONSERVATION/GRAVES REVIEW	EJB
3	7/7/17	CLIENT & GRAVES REVIEW	EJB
2	6/19/17	PLANNING COMMENTS	EJB
1	5/5/17	CONSERVATION REVIEW	EJB

EXHIBIT

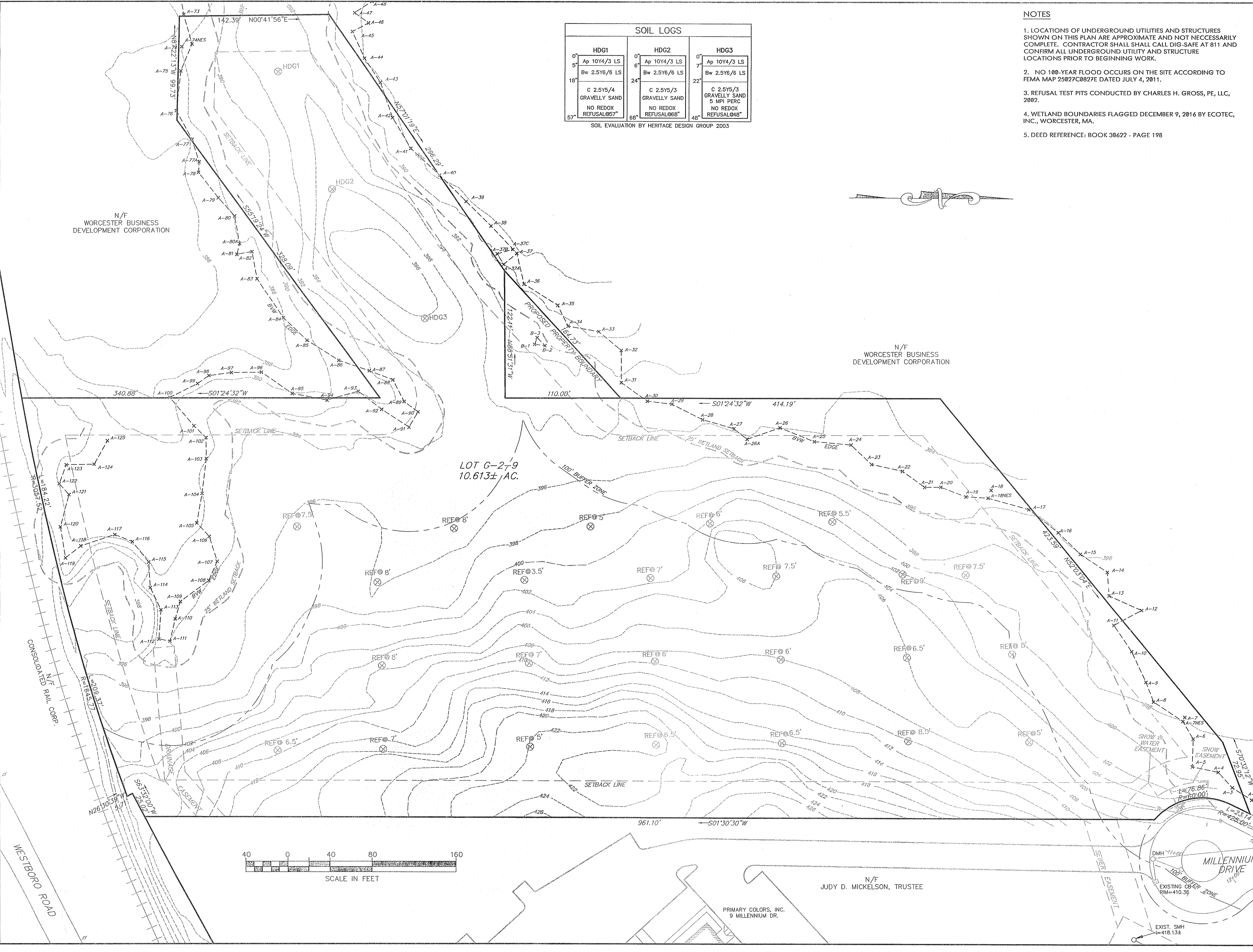
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BEING A MAJORITY DATE

RECEIVED

AUG 25 2017

PLANNING BOARD
GRAFTON, MA



SOIL LOGS		
HDG1	HDG2	HDG3
0" Ap 10Y4/3 LS	0" Ap 10Y4/3 LS	0" Ap 10Y4/3 LS
5" Bw 2.5Y6/6 LS	6" Bw 2.5Y6/6 LS	7" Bw 2.5Y6/6 LS
16" C 2.5Y5/4 GRAVELLY SAND NO REDOX REFUSAL#57	24" C 2.5Y5/3 GRAVELLY SAND NO REDOX REFUSAL#58	22" C 2.5Y5/3 GRAVELLY SAND 5 MPI PERC NO REDOX REFUSAL#48
57"	68"	48"

SOIL EVALUATION BY HERITAGE DESIGN GROUP 2003

- NOTES
1. LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THIS PLAN ARE APPROXIMATE AND NOT NECESSARILY COMPLETE. CONTRACTOR SHALL CALL DIG-SAFE AT 811 AND CONFIRM ALL UNDERGROUND UTILITY AND STRUCTURE LOCATIONS PRIOR TO BEGINNING WORK.
 2. NO 100-YEAR FLOOD OCCURS ON THE SITE ACCORDING TO FEMA MAP 25027C0827E DATED JULY 4, 2011.
 3. REFUSAL TEST PITS CONDUCTED BY CHARLES H. GROSS, PE, LLC, 2002.
 4. WETLAND BOUNDARIES FLAGGED DECEMBER 9, 2016 BY ECOTEC, INC., WORCESTER, MA.
 5. DEED REFERENCE: BOOK 30622 - PAGE 198

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LEGEND	
	EXISTING CONTOUR
	WETLAND FLAG
	HYDRANT
	DRAIN MANHOLE
	TEST PIT

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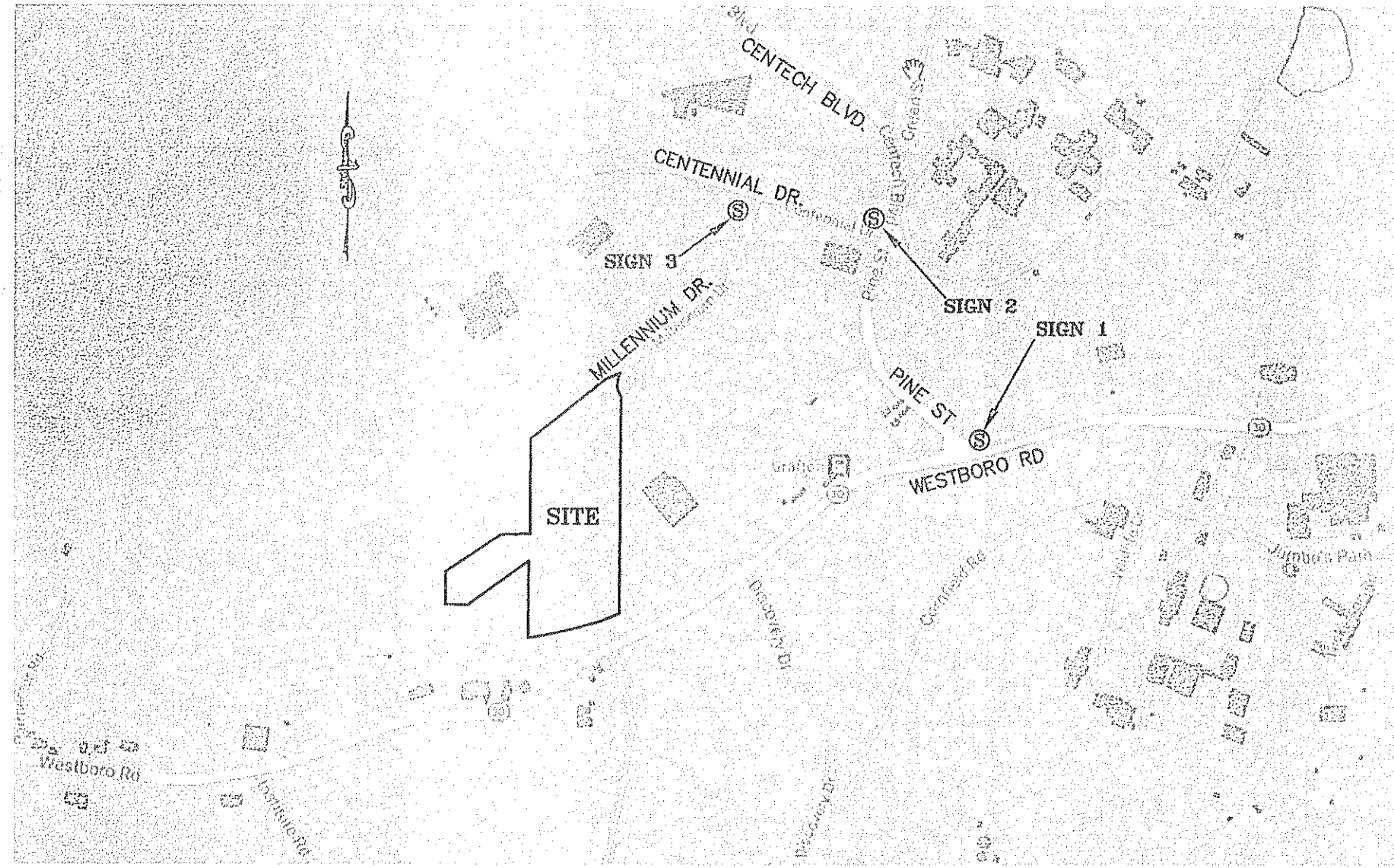
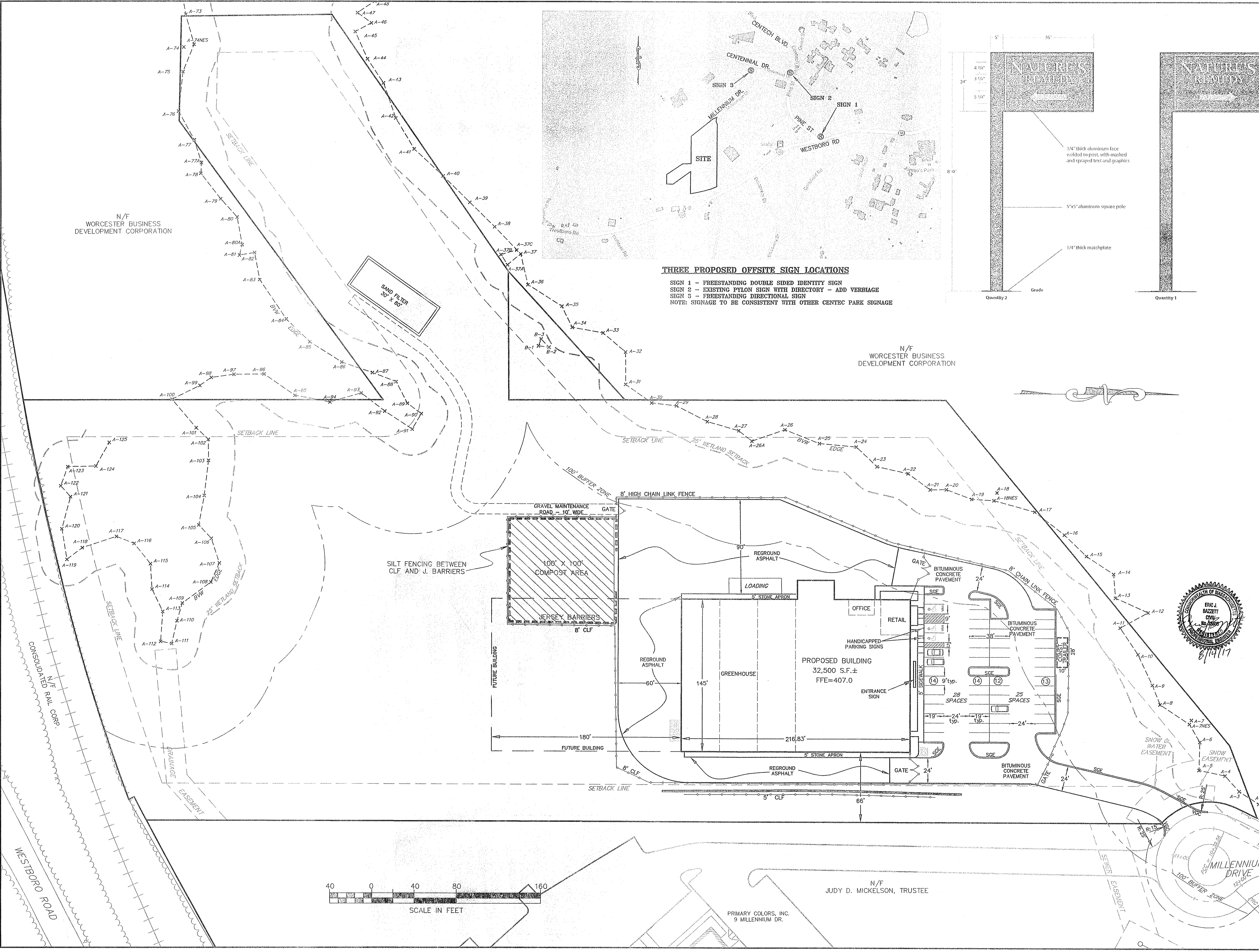
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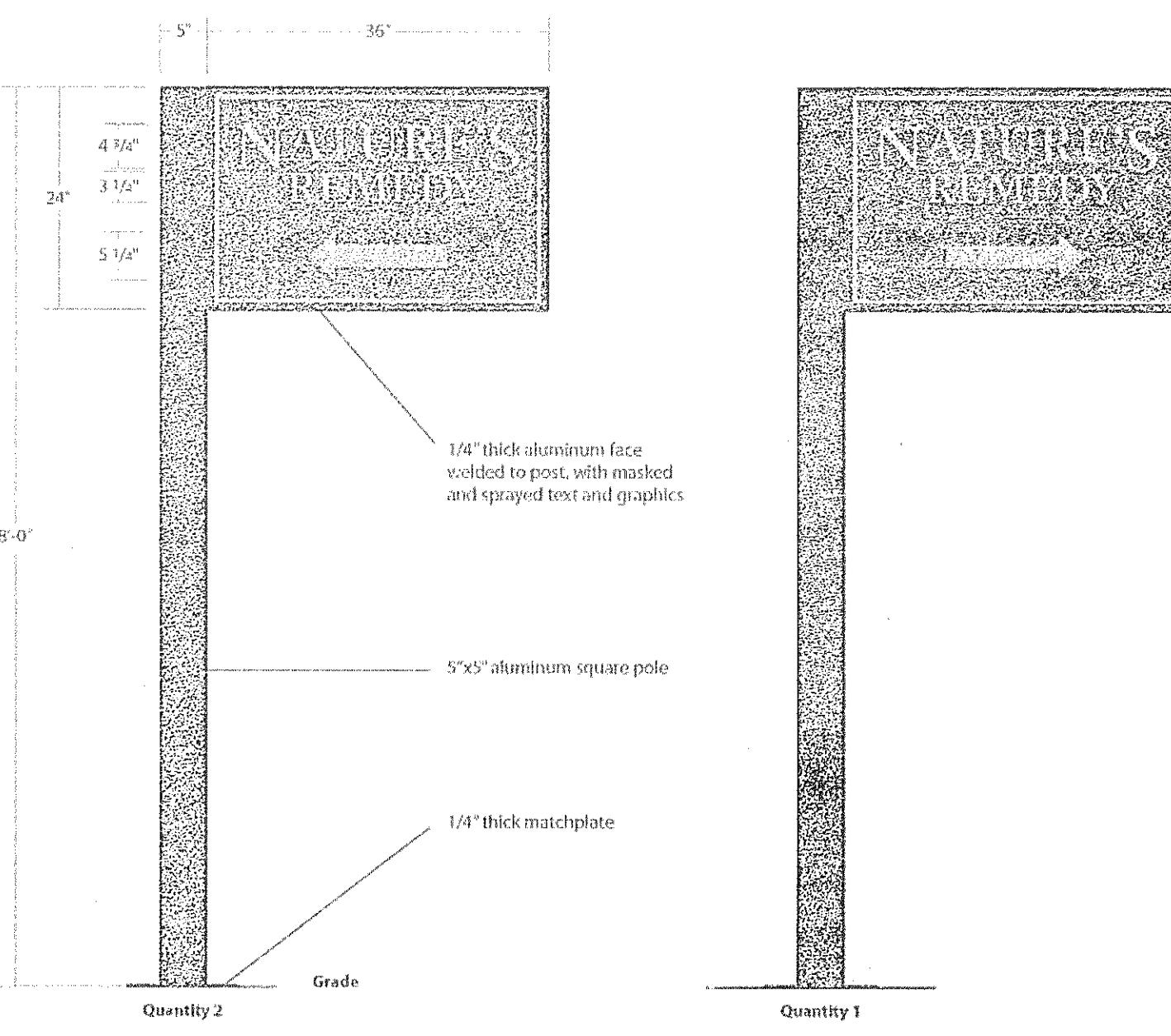
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EXISTING CONDITIONS PLAN
SHEET 2 OF 13



THREE PROPOSED OFFSITE SIGN LOCATIONS
SIGN 1 - FREESTANDING DOUBLE SIDED IDENTITY SIGN
SIGN 2 - EXISTING PYLON SIGN WITH DIRECTORY - ADD VERBIAGE
SIGN 3 - FREESTANDING DIRECTIONAL SIGN
NOTE: SIGNAGE TO BE CONSISTENT WITH OTHER CENTEC PARK SIGNAGE



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PROPOSED USE

REGISTERED MARIJUANA DISPENSARY (RMD)

DEVELOPMENT REQUIREMENTS

ZONE CLASSIFICATION: OFFICE & LIGHT INDUSTRY
MINIMUM LOT AREA: 40,000 S.F.
MINIMUM LOT FRONTAGE/WIDTH: 120' (80' CUL-DESAC)
FRONT YARD: 40'
SIDE YARD: 35'
REAR YARD: 35'
MAXIMUM BUILDING COVERAGE: 40 %
STREET SETBACK FOR PARKING & LOADING: 50'
ZONE CLASSIFICATION: CAMPUS DEVELOPMENT OVERLAY
MINIMUM LOT AREA: 43,560 S.F.
MINIMUM LOT FRONTAGE: 100'
MINIMUM LOT WIDTH: 150'
FRONT YARD: 40'
SIDE YARD: 35'
REAR YARD: 35'

PARKING SCHEDULE

RETAIL PARKING REQUIREMENT:
1 SPACE / 150 S.F. = 5,325 S.F./150 = 36 SPACES @ 9'X18'
INDUSTRIAL PARKING REQUIREMENT:
1 SPACE / 500 S.F. = 21,300 S.F./500 = 43 SPACES @ 9'X18'
TOTAL PARKING PROVIDED: 53 SPACES

LOT COVERAGE

BUILDINGS: 7.1 % PAVEMENT: 9.1 %
OPEN SPACE/LANDSCAPE: 76.3 %

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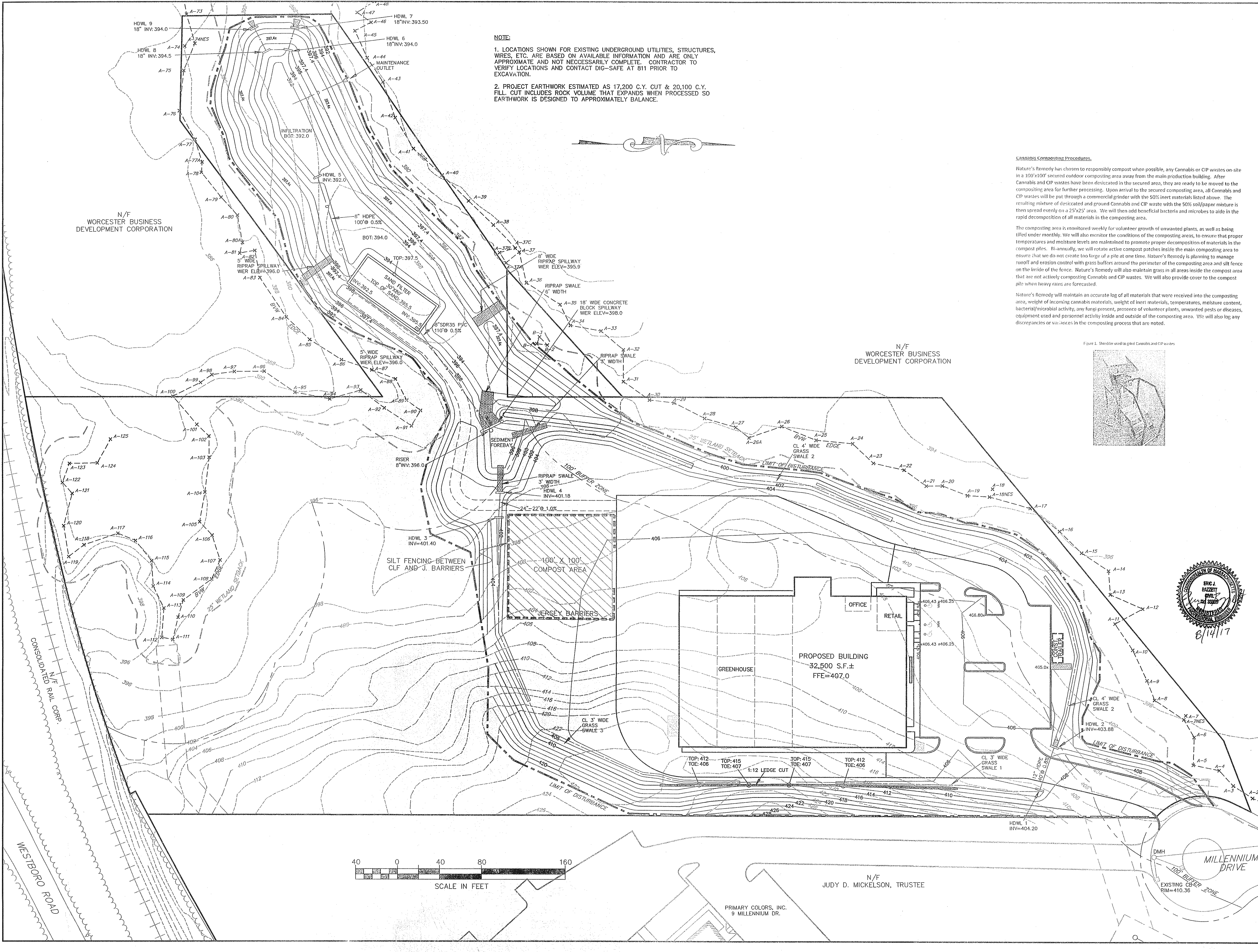
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LAYOUT PLAN
SHEET 3 OF 13



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LEGEND
31.3.3x
124
124
PROPOSED SPOT GRADE
EXISTING CONTOUR
PROPOSED CONTOUR

Grading & Drainage Plan
SHEET 4 OF 13

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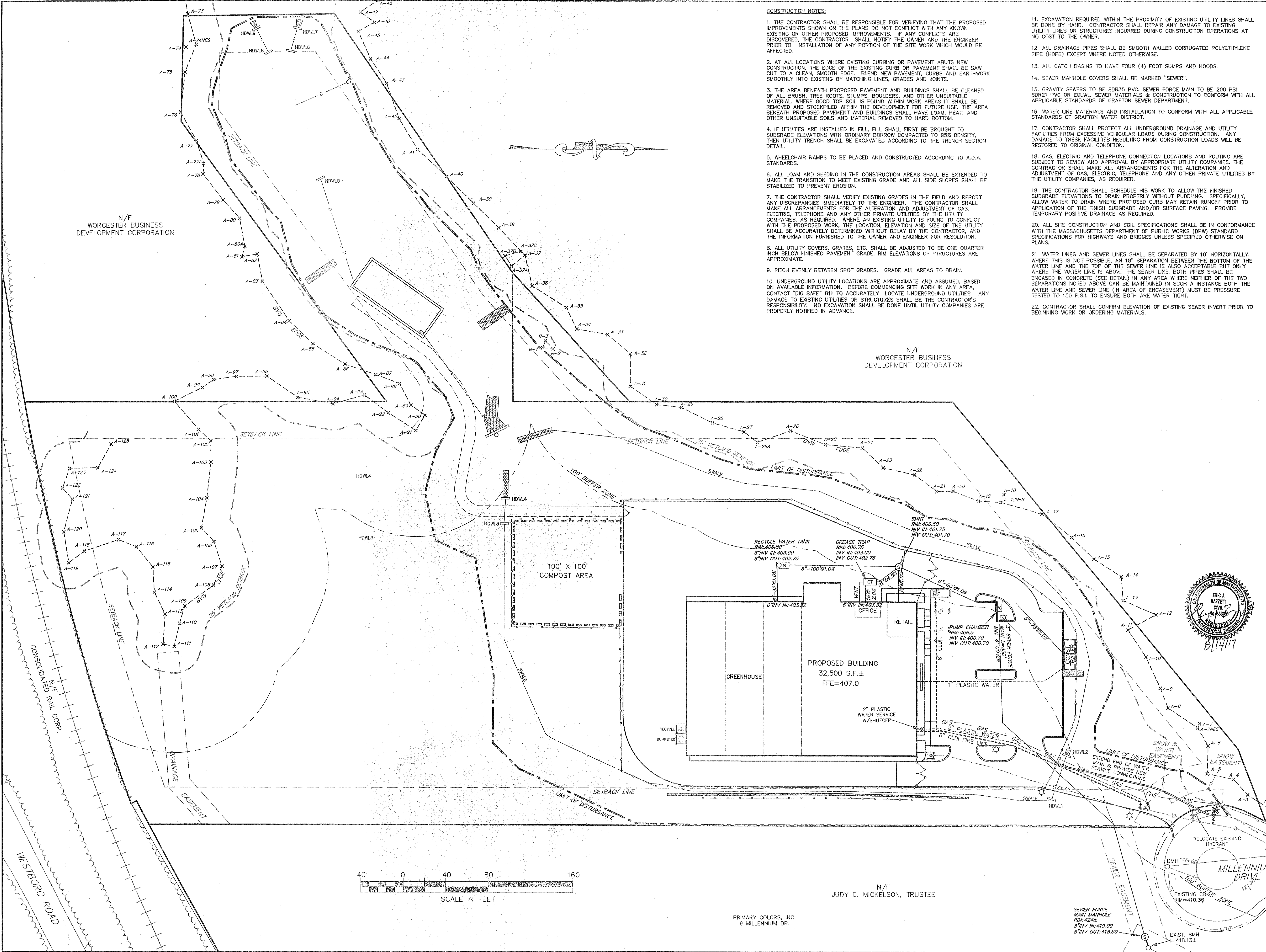
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BEING A MAJORITY
DATE
8/14/17

Eric J. Gazetti
P.E.
8/14/17

Grading & Drainage Plan
SHEET 4 OF 13



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.
2. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT, CURBS AND EARTHWORK SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
3. THE AREA BENEATH PROPOSED PAVEMENT AND BUILDINGS SHALL BE CLEANED OF ALL BRUSH, TREE ROOTS, STUMPS, Boulders, AND OTHER UNSUITABLE MATERIAL. WHERE GOOD TOP SOIL IS FOUND WITHIN WORK AREAS IT SHALL BE REMOVED AND STOCKPILED WITHIN THE DEVELOPMENT FOR FUTURE USE. THE AREA BENEATH PROPOSED PAVEMENT AND BUILDINGS SHALL HAVE LOAM, PEAT, AND OTHER UNSUITABLE SOILS AND MATERIAL REMOVED TO HARD BOTTOM.
4. IF UTILITIES ARE INSTALLED IN FILL, FILL SHALL FIRST BE BROUGHT TO SUBGRADE ELEVATIONS WITH ORDINARY BORROW COMPACTED TO 95% DENSITY. THEN UTILITY TRENCH SHALL BE EXCAVATED ACCORDING TO THE TRENCH SECTION DETAIL.
5. WHEELCHAIR RAMPS TO BE PLACED AND CONSTRUCTED ACCORDING TO A.D.A. STANDARDS.
6. ALL LOAM AND SEEDING IN THE CONSTRUCTION AREAS SHALL BE EXTENDED TO MAKE THE TRANSITION TO MEET EXISTING GRADE AND ALL SIDE SLOPES SHALL BE STABILIZED TO PREVENT EROSION.
7. THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER AND ENGINEER FOR RESOLUTION.
8. ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE ONE QUARTER INCH BELOW FINISHED PAVEMENT GRADE. RIM ELEVATIONS OF STRUCTURES ARE APPROXIMATE.
9. PITCH EVENLY BETWEEN SPOT GRADES. GRADE ALL AREAS TO DRAIN.
10. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND ASSUMED, BASED ON AVAILABLE INFORMATION. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" 811 TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE.
11. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
12. ALL DRAINAGE PIPES SHALL BE SMOOTH WALLED CORRUGATED POLYETHYLENE PIPE (HDPE) EXCEPT WHERE NOTED OTHERWISE.
13. ALL CATCH BASINS TO HAVE FOUR (4) FOOT SUMPS AND HOODS.
14. SEWER MANHOLE COVERS SHALL BE MARKED "SEWER".
15. GRAVITY SEWERS TO BE SDR35 PVC. SEWER FORCE MAIN TO BE 200 PSI SDR21 PVC OR EQUAL SEWER MATERIALS & CONSTRUCTION TO CONFORM WITH ALL APPLICABLE STANDARDS OF GRAFTON SEWER DEPARTMENT.
16. WATER LINE MATERIALS AND INSTALLATION TO CONFORM WITH ALL APPLICABLE STANDARDS OF GRAFTON WATER DISTRICT.
17. CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION.
18. GAS, ELECTRIC AND TELEPHONE CONNECTION LOCATIONS AND ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
19. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDING. SPECIFICALLY, ALLOW WATER TO DRAIN WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF THE FINISH SUBGRADE AND/OR SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.
20. ALL SITE CONSTRUCTION AND SOIL SPECIFICATIONS SHALL BE IN CONFORMANCE WITH THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS (DPW) STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES UNLESS SPECIFIED OTHERWISE ON PLANS.
21. WATER LINES AND SEWER LINES SHALL BE SEPARATED BY 10' HORIZONTALLY. WHERE THIS IS NOT POSSIBLE, AN 18" SEPARATION BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF THE SEWER LINE IS ALSO ACCEPTABLE BUT ONLY WHERE THE WATER LINE IS ABOVE THE SEWER LINE. BOTH PIPES SHALL BE ENCASED IN CONCRETE (SEE DETAIL) IN ANY AREA WHERE NEITHER OF THE TWO SEPARATIONS NOTED ABOVE CAN BE MAINTAINED IN SUCH A MANNER BOTH THE WATER LINE AND SEWER LINE (IN AREA OF ENCASEMENT) MUST BE PRESSURE TESTED TO 150 P.S.I. TO ENSURE BOTH ARE WATER TIGHT.
22. CONTRACTOR SHALL CONFIRM ELEVATION OF EXISTING SEWER INVERT PRIOR TO BEGINNING WORK OR ORDERING MATERIALS.

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LEGEND

E/T/C	ELECTRIC/TELECOM/CABLE
CLDI	CEMENT LINED DUCTILE IRON
W	EXISTING WATER LINE
G	EXISTING GAS LINE

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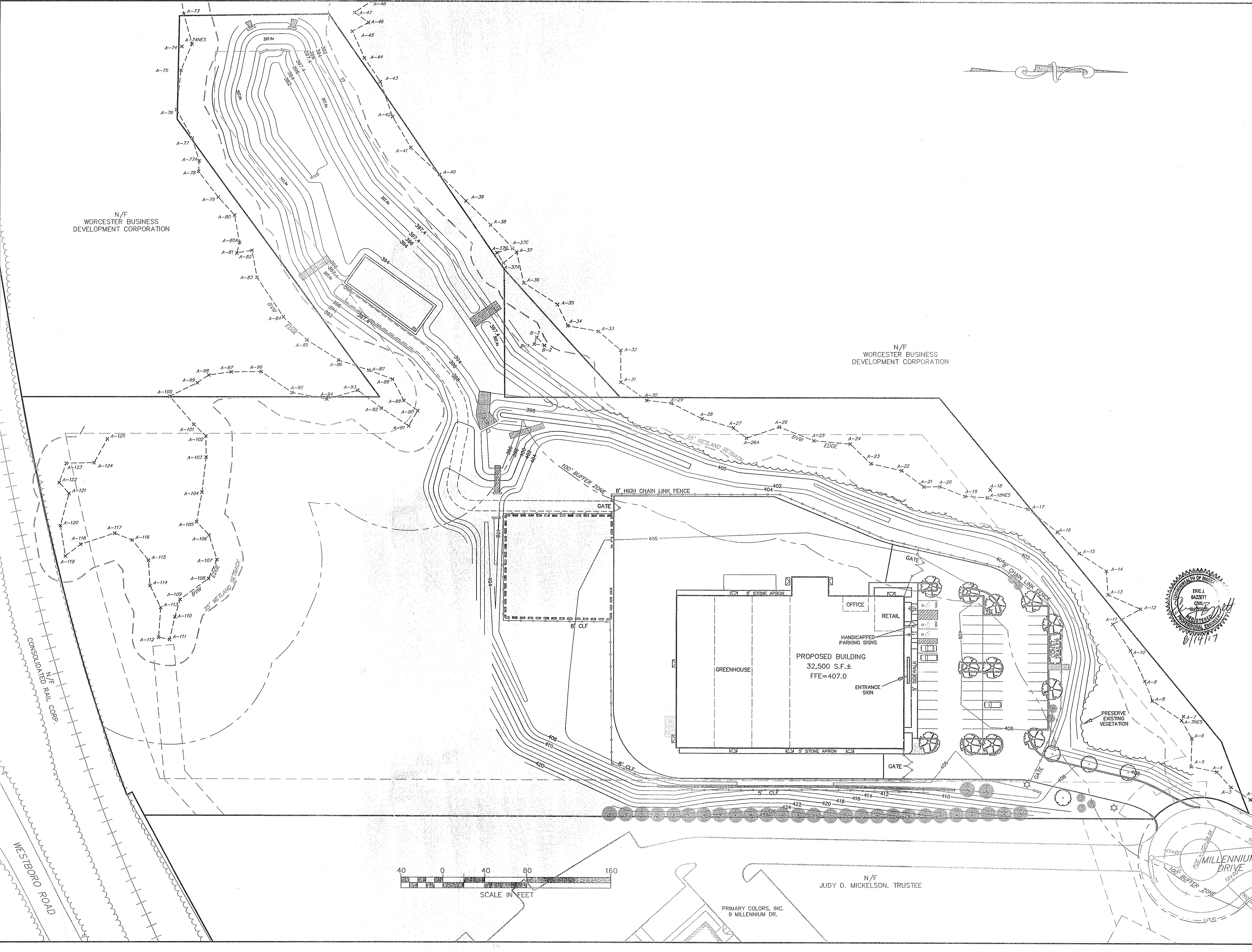
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UTILITY PLAN
SHEET 5 OF 13



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- LEGEND**
- Acer Rubrum "Red Sunset"
(Red Sunset Red Maple)
2" Caliper
 - Pinus Strobus
(White Pine)
5-6' Height
 - Cornus florida "Cherokee Brave"
(Cherokee Brave Boxwood)
5-6' Height
 - Buxus "Green Velvet"
(Green Velvet Boxwood)
Containerized - 1 Gallon
 - LIGHT POLE
 - WALLPACK LIGHT
 - ENTRANCE LIGHT

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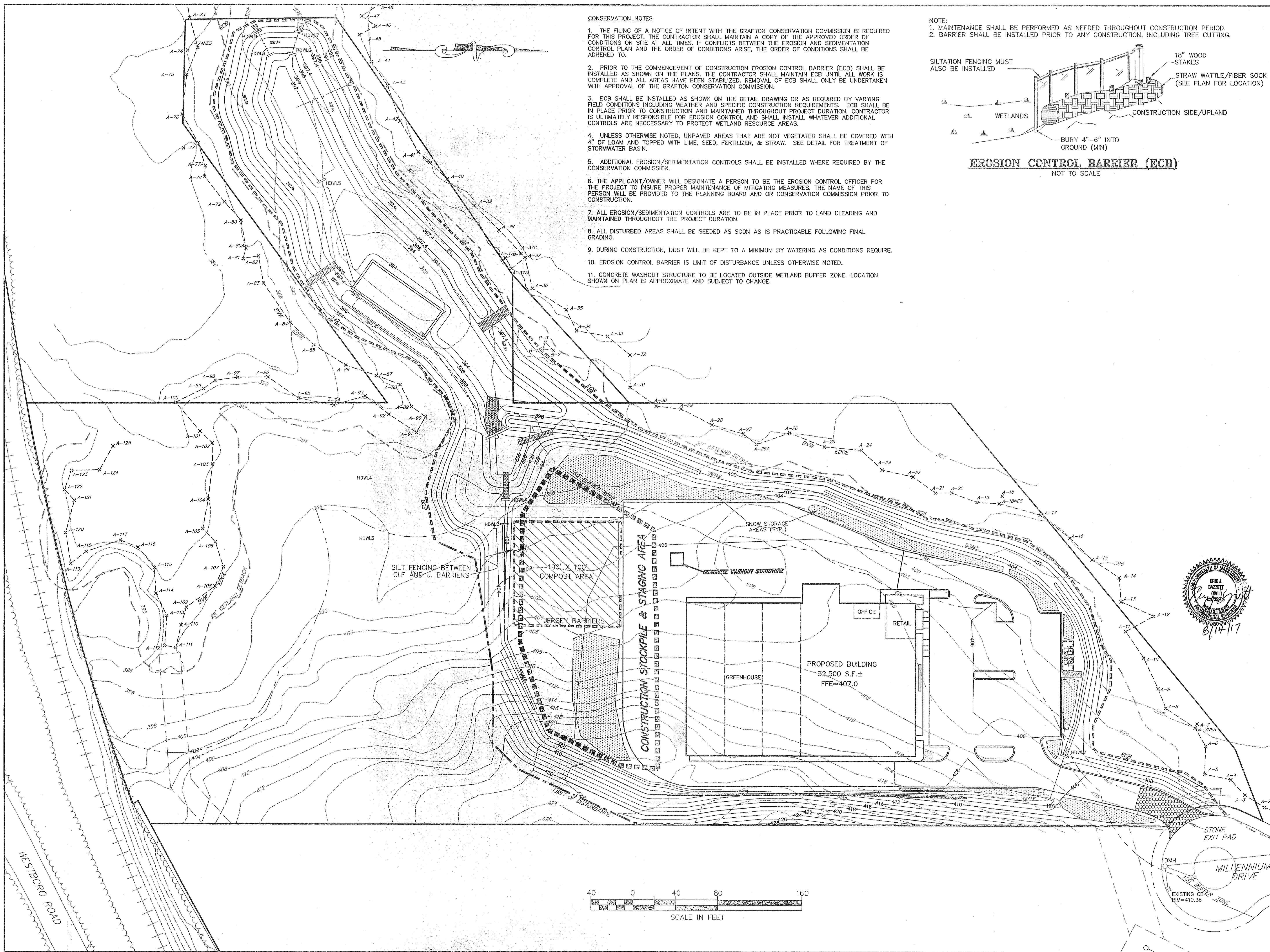
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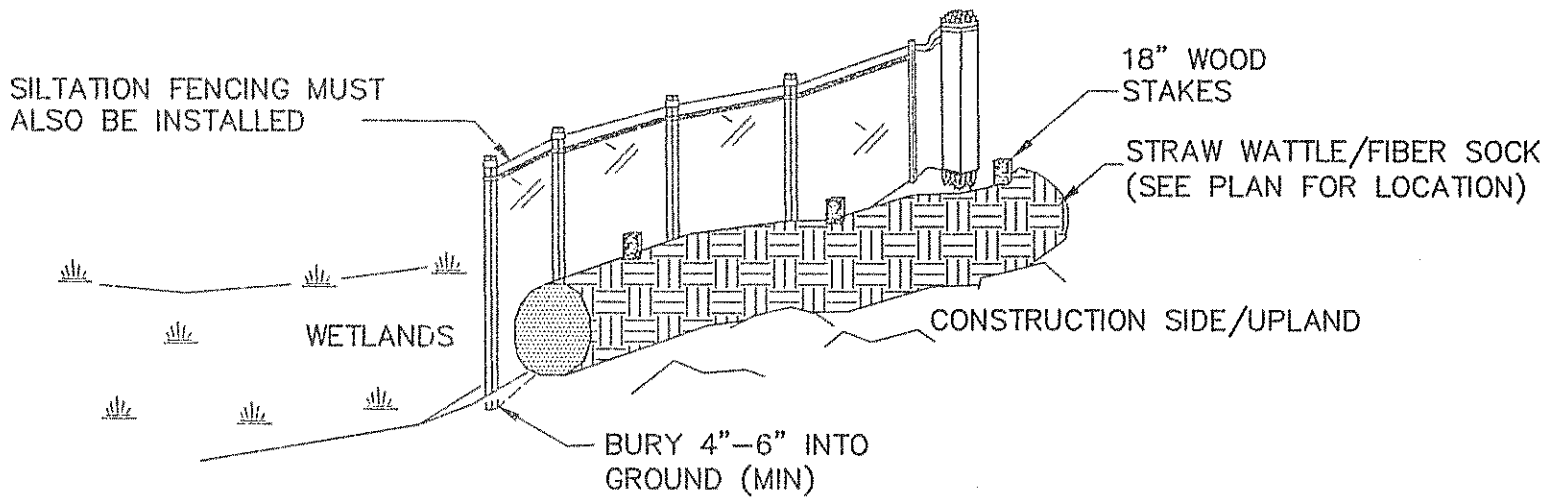
LANDSCAPE & LIGHTING PLAN
SHEET 6 OF 13



CONSERVATION NOTES

1. THE FILING OF A NOTICE OF INTENT WITH THE GRAFTON CONSERVATION COMMISSION IS REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED ORDER OF CONDITIONS ON SITE AT ALL TIMES. IF CONFLICTS BETWEEN THE EROSION AND SEDIMENTATION CONTROL PLAN AND THE ORDER OF CONDITIONS ARISE, THE ORDER OF CONDITIONS SHALL BE ADHERED TO.
2. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION EROSION CONTROL BARRIER (ECB) SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN ECB UNTIL ALL WORK IS COMPLETE AND ALL AREAS HAVE BEEN STABILIZED. REMOVAL OF ECB SHALL ONLY BE UNDERTAKEN WITH APPROVAL OF THE GRAFTON CONSERVATION COMMISSION.
3. ECB SHALL BE INSTALLED AS SHOWN ON THE DETAIL DRAWING OR AS REQUIRED BY VARYING FIELD CONDITIONS INCLUDING WEATHER AND SPECIFIC CONSTRUCTION REQUIREMENTS. ECB SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND MAINTAINED THROUGHOUT PROJECT DURATION. CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR EROSION CONTROL AND SHALL INSTALL WHATEVER ADDITIONAL CONTROLS ARE NECESSARY TO PROTECT WETLAND RESOURCE AREAS.
4. UNLESS OTHERWISE NOTED, UNPAVED AREAS THAT ARE NOT VEGETATED SHALL BE COVERED WITH 4" OF LOAM AND TOPPED WITH LIME, SEED, FERTILIZER, & STRAW. SEE DETAIL FOR TREATMENT OF STORMWATER BASIN.
5. ADDITIONAL EROSION/SEDIMENTATION CONTROLS SHALL BE INSTALLED WHERE REQUIRED BY THE CONSERVATION COMMISSION.
6. THE APPLICANT/OWNER WILL DESIGNATE A PERSON TO BE THE EROSION CONTROL OFFICER FOR THE PROJECT TO INSURE PROPER MAINTENANCE OF MITIGATING MEASURES. THE NAME OF THIS PERSON WILL BE PROVIDED TO THE PLANNING BOARD AND OR CONSERVATION COMMISSION PRIOR TO CONSTRUCTION.
7. ALL EROSION/SEDIMENTATION CONTROLS ARE TO BE IN PLACE PRIOR TO LAND CLEARING AND MAINTAINED THROUGHOUT THE PROJECT DURATION.
8. ALL DISTURBED AREAS SHALL BE SEEDED AS SOON AS IS PRACTICABLE FOLLOWING FINAL GRADING.
9. DURING CONSTRUCTION, DUST WILL BE KEPT TO A MINIMUM BY WATERING AS CONDITIONS REQUIRE.
10. EROSION CONTROL BARRIER IS LIMIT OF DISTURBANCE UNLESS OTHERWISE NOTED.
11. CONCRETE WASHOUT STRUCTURE TO BE LOCATED OUTSIDE WETLAND BUFFER ZONE. LOCATION SHOWN ON PLAN IS APPROXIMATE AND SUBJECT TO CHANGE.

NOTE:
1. MAINTENANCE SHALL BE PERFORMED AS NEEDED THROUGHOUT CONSTRUCTION PERIOD.
2. BARRIER SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION, INCLUDING TREE CUTTING.



EROSION CONTROL BARRIER (ECB)
NOT TO SCALE

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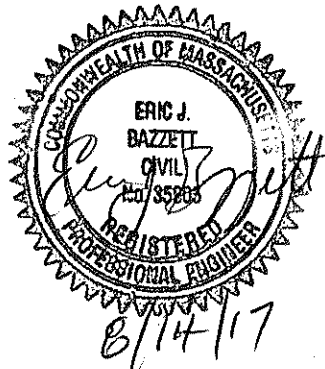
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EROSION CONTROL PLAN
SHEET 7 OF 13

EROSION & SEDIMENTATION CONTROL NOTES:

GENERAL

1. THE PURPOSE OF THIS PLAN IS TO PRESENT A CONSTRUCTION SYSTEM THAT SHOULD MINIMIZE THE IMPACT OF THE CONSTRUCTION UPON WETLANDS AND OTHER SENSITIVE AREAS. THE INFORMATION CONTAINED HEREIN IS TO SUPPLEMENT THE DEVELOPER OR CONTRACTOR'S EXPERTISE AND IS NOT INTENDED AS A SUBSTITUTE FOR LOGICAL DECISIONS REQUIRED BY A VARIETY OF FIELD CONDITIONS INCLUDING WEATHER AND THE TYPE OF EQUIPMENT AVAILABLE TO THE CONTRACTOR.
2. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED ORDER OF CONDITIONS ON SITE AT ALL TIMES. IF CONFLICTS BETWEEN THE EROSION AND SEDIMENTATION CONTROL PLAN AND THE ORDER OF CONDITIONS ARISE, THE ORDER OF CONDITIONS SHALL BE ADHERED TO.
3. IF CHANGES TO THE PROJECT ARE REQUIRED DUE TO FIELD CONDITIONS THE DEVELOPER/CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER AND THE CONSERVATION COMMISSION. ADDITIONALLY, ANY DAMAGE TO WETLANDS BY EROSION OR EQUIPMENT SHALL BE REPORTED TO THE CONSERVATION COMMISSION ALONG WITH ANY PROPOSED MITIGATING MEASURES.
5. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE ECB SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE ECB UNTIL ALL WORK IS COMPLETE AND ALL AREAS HAVE BEEN STABILIZED. THE REMOVAL OF SEDIMENT CONTROL DEVICES SHALL BE ONLY UPON THE APPROVAL OF THE CONSERVATION COMMISSION.
6. SEDIMENTATION AND EROSION CONTROL DEVICES ARE TO BE INSTALLED AS SHOWN ON THE DETAIL DRAWING OR AS REQUIRED BY VARYING FIELD CONDITIONS INCLUDING WEATHER AND SPECIFIC CONSTRUCTION REQUIREMENTS.
7. THE FUNCTIONING OF TEMPORARY MITIGATIVE MEASURES OR CONSTRUCTION OPERATIONS SHALL NOT CAUSE NOTICEABLE SEDIMENTATION PLUMES. IF PLUMES DEVELOP THE CONTRACTOR SHALL IMMEDIATELY INSTALL SEDIMENTATION CONTROL DEVICES TO PREVENT FURTHER SEDIMENTATION.
8. NO MATERIAL SUBJECT TO EROSION SHALL BE STOCKPILED OVERNIGHT WITHIN 100 FEET OF ANY WETLAND AREAS (THE BUFFER ZONE).
9. EQUIPMENT SHALL NOT BE STORED OVERNIGHT WITHIN WETLANDS OR THE BUFFER ZONE.
10. ACCUMULATED SEDIMENT SHALL BE PERIODICALLY REMOVED FROM THE EROSION CONTROL DEVICES AND DISPOSED OF BY THE CONTRACTOR AS REQUIRED OR WHEN DIRECTED BY THE CONSERVATION COMMISSION OR ENGINEER.
11. SOIL AND SLOPE STABILIZATION SHALL PRESUMED TO BE ATTAINED WHEN THE VEGETATION HAS ACHIEVED AT LEAST 75% GROUND COVER BY A HEALTHY STAND OF GRASS FOR THE SPECIFIED MIX OF SPECIES.

DEMARICATION OF SENSITIVE AREAS

1. ECB SHALL BE INSTALLED ON THE SITE AS SHOWN ON THE PLANS TO CONTROL THE LIMITS OF DISTURBANCE. ADDITIONAL BARRIERS TO PROVIDE DEMARICATION SUCH AS LOG BARRIERS, ROPE AND FLAGGING, ETC. MAY BE UTILIZED IN ADDITION TO THE ECB.
2. CARE SHOULD BE TAKEN IN THE OPERATION OF EQUIPMENT SUCH THAT ONLY THE MINIMUM AREA NEEDED TO BE ALTERED IS DISTURBED.

EROSION AND SEDIMENT CONTROL METHODS

1. EROSION CONTROL DEVICES SUCH AS WATTLES, SILT FENCES AND MULCH SHALL BE BROUGHT TO THE SITE AND STOCKPILED PRIOR TO INITIATING CONSTRUCTION. A RESERVE STOCKPILE SHALL BE ON SITE AT ALL TIMES FOR USE DURING EMERGENCY SITUATIONS.
2. THE PRIMARY EROSION CONTROL METHOD TO BE UTILIZED IS TO LIMIT THE AREA OF DISTURBANCE AND TO INITIATE PROMPT STABILIZATION OF DISTURBED AREAS.
3. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SUCH AS WATTLES, SILT FENCES, DIVERSION BERMS, TEMPORARY SEDIMENT BASINS, ETC. SHALL BE UTILIZED FOR THE PROTECTION OF THE AREAS BEYOND THE LIMITS OF CONSTRUCTION.
4. ALL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND GOOD ENGINEERING PRACTICE.
5. THE CONCENTRATION OF UNCONTROLLED RUNOFF SHALL BE AVOIDED IN ORDER TO PREVENT THE TRANSPORTATION OF SEDIMENT.
6. CONTRACTORS SHALL MAKE EVERY REASONABLE EFFORT TO RETAIN SEDIMENT ON SITE AND PREVENT SEDIMENT MIGRATION TO WETLAND AREAS OR PROPERTY BOUNDARIES.
7. OFF-SITE MIGRATION OF SEDIMENT THROUGH VEHICLE TRAFFIC IN AND OUT OF SITE SHALL BE ADDRESSED WITH SWEEEPING AS DIRECTED BY THE LOCAL HIGHWAY SUPERINTENDANT OR TOWN ENGINEER.
8. SEDIMENT SHALL BE REMOVED FROM ANY SEDIMENT TRAPS OR PONDS WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
9. CONCRETE WASHOUT LOCATIONS SHALL BE LOCATED OUTSIDE OF RESOURCE AREAS AND THEIR ASSOCIATED BUFFER ZONES.

STABILIZATION PRACTICES

1. ALL SOIL SLOPES STEEPER THAN 2:1 SHALL BE STABILIZED WITH ANCHORED SLOPE MATTING UNLESS OTHERWISE SPECIFIED. ALL OTHER SLOPES AND DETENTION BASINS SHALL BE STABILIZED WITH HYDROSEED. REMAINING AREAS SHALL BE LOAMED AND SEEDED WITH THE SPECIFIED SEED MIX.
2. STABILIZATION PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: ESTABLISHMENT OF TEMPORARY VEGETATION, ESTABLISHMENT OF PERMANENT VEGETATION, MULCHING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES AND EXISTING VEGETATION, AND OTHER APPROPRIATE MEASURES.
3. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE LATER THAN 30 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
4. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 30TH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE, INCLUDING THE TIMELY REMOVAL OF SNOW COVER TO ALLOW STABILIZATION MEASURES TO BE PUT DIRECTLY IN CONTACT WITH THE SOIL SURFACE.
5. WHERE CONSTRUCTION ACTIVITY ON A SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 30 DAYS, TEMPORARY STABILIZATION MEASURES ARE NOT REQUIRED FOR THAT PORTION OF THE SITE.

STRUCTURAL PRACTICES

1. STRUCTURAL PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: SILT FENCES, WATTLES, STRAW BALES, EARTH DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, AND TEMPORARY AND PERMANENT SEDIMENT BASINS.
2. PRIOR TO BEGINNING WORK, CONTRACTOR SHALL INSTALL ECB AS SHOWN ON PLANS IN AREAS WHERE WORK IS PLANNED. PERMANENT STORM WATER MANAGEMENT BASINS SHOWN ON PLANS MAY BE USED AS TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT BERMS, SWALES OR OTHER MEASURES TO DIRECT STORM WATER TO TEMPORARY BASINS DURING CONSTRUCTION. WHERE STORM WATER CANNOT BE DIRECTED TO PERMANENT BASIN AREAS, TEMPORARY BASINS SHALL BE CONSTRUCTED WITH A VOLUME OF 3,600 CUBIC FEET PER ACRE OF AREA DIRECTED TO BASIN.

STORM WATER MANAGEMENT

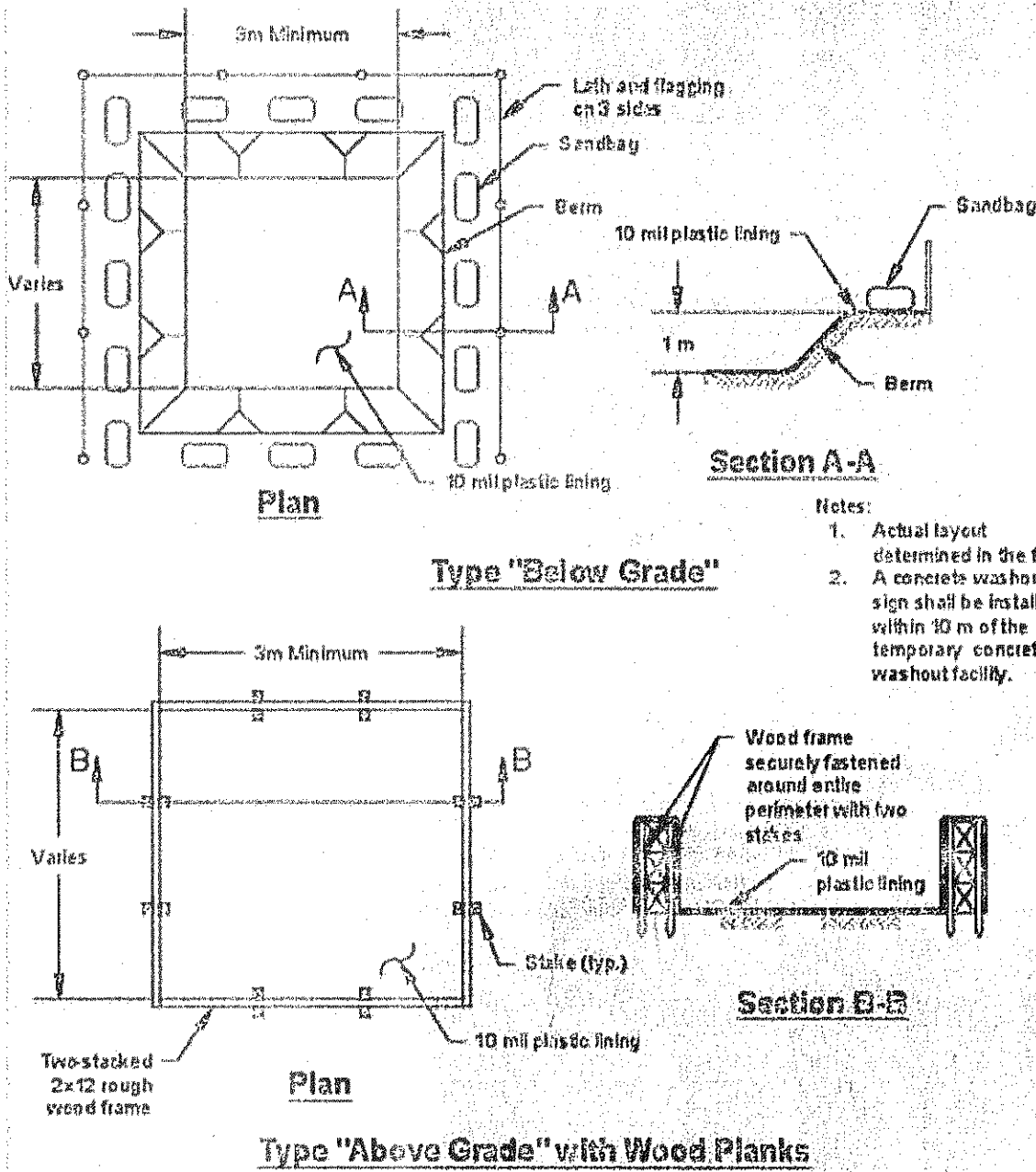
1. STORM WATER MANAGEMENT MEASURES INSTALLED DURING CONSTRUCTION TO CONTROL POLLUTANTS IN STORM WATER AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED MAY INCLUDE BUT ARE NOT LIMITED TO: GRASSED SWALES, SEDIMENT FOREBAYS IN STORM WATER MANAGEMENT BASINS, SAND FILTERS, INFILTRATION BASINS, AND PERMANENT STORM WATER BASINS FOR SEDIMENT REMOVAL. THE TECHNICAL BASIS USED TO SELECT THE STORM WATER MANAGEMENT PRACTICES IS THE MASSACHUSETTS STORM WATER MANAGEMENT POLICY AS WELL AS SITE SPECIFIC CONDITIONS AND REGULATIONS OR RESTRICTIONS IMPOSED BY LOCAL REVIEWING AUTHORITIES.

GENERAL SITE MAINTENANCE

1. UNDER NO CONDITIONS SHALL SOLID MATERIALS, INCLUDING BUILDING MATERIALS, BE DISCHARGED TO WATERS OF THE UNITED STATES EXCEPT AS MAY BE AUTHORIZED BY PERMIT UNDER SECTION 404 OF THE CLEAN WATERS ACT.
2. DUST SHALL BE CONTROLLED BY WATERING AS SITE CONDITIONS DEMAND. USE OF CALCIUM CHLORIDE IS PROHIBITED.
3. STABILIZED STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO BEGINNING EARTHWORK. IF STONE VOIDS IN STONE IN CONSTRUCTION ENTRANCE BECOME COMPLETELY FILLED WITH SEDIMENT, STONE SHALL BE REMOVED AND REPLACED WITH CLEAN STONE.
4. NO MACHINERY SHALL BE STORED OR REFUELED WITHIN 100 FEET OF ANY WETLAND AREAS SHOWN ON PLANS.
5. ALL EROSION CONTROL MEASURES AND OTHER PROTECTIVE MEASURES USED ON THE SITE MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IF SITE INSPECTIONS IDENTIFY BMPs THAT ARE NOT FUNCTIONING MAINTENANCE SHALL BE PERFORMED BEFORE THE NEXT ANTICIPATED STORM EVENT, OR AS NECESSARY TO MAINTAIN THE CONTINUED EFFECTIVENESS OF STORM WATER CONTROLS. IF MAINTENANCE PRIOR TO THE NEXT ANTICIPATED STORM EVENT IS IMPRACTICABLE, MAINTENANCE MUST BE SCHEDULED AND ACCOMPLISHED AS SOON AS PRACTICABLE.

INSPECTIONS

1. INSPECTIONS MUST BE CONDUCTED AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
2. INSPECTIONS MAY BE REDUCED TO ONCE A MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR IF THE GROUND SURFACE IS STABILIZED BY SNOW, ICE OR FROZEN GROUND.
3. INSPECTIONS MUST BE CONDUCTED BY A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS WHO POSSESSES THE SKILLS TO ASSESS CONDITION AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION ACTIVITY.
4. FOR EACH INSPECTION PERFORMED, AN INSPECTION REPORT MUST BE COMPLETED AND RETAINED FOR AT LEAST THREE YEARS FROM THE DATE THAT NPDES PERMIT COVERAGE EXPIRES OR IS TERMINATED.



CONCRETE WASHOUT STRUCTURE

NOT TO SCALE

SEQUENCE OF CONSTRUCTION

1. THE CONTRACTOR SHALL PERFORM MAJOR SITE CONSTRUCTION ACTIVITIES IN A MANNER WHICH WILL INSURE THE STABILIZATION OF AREAS IN PROXIMITY OF OR TRIBUTARY TO WETLAND AREAS AS SOON AS POSSIBLE AS OUTLINED BELOW.
 - o INSTALL ECB IN LOCATIONS SHOWN ON PLANS
 - o INSTALL CONSTRUCTION ENTRANCE
 - o SOIL STABILIZATION
 - o CLEAR AND GRUB SITE
 - o EXCAVATE BUILDING PAD, STOCKPILE SOIL & PROCESS ROCK
 - o CONSTRUCT STORM WATER BASIN AND SWALES
 - o SITE GRADING
 - o BEGIN BUILDING CONSTRUCTION
 - o INSTALL UTILITIES
 - o INSTALL GRAVEL FOR PAVEMENT BASE
 - o BASE COURSE PAVING
 - o FINAL GRADING, PAVING AND LOAM & SEED
 - o LANDSCAPING

ACCESS

1. ACCESS TO THE SITE SHALL BE MADE IN THE AREA OF A PERMANENT DRIVEWAY OR ROADWAY UNLESS DOING SO WOULD RESULT IN A TRAFFIC HAZARD.
2. PRIOR TO CONSTRUCTION AN AREA OF CLEAN STONE SHALL BE PLACED AT THE DRIVEWAY ENTRANCE TO INSURE THAT MUD IS NOT TRACKED ONTO THE EXISTING ROAD (SEE CONSTRUCTION ENTRANCE). IF MUD IS INADVERTENTLY TRACKED ONTO THE ROAD IT SHOULD BE REMOVED BEFORE THE END OF THE WORK DAY.
3. LABORERS VEHICLES SHALL BE PARKED IN A DESIGNATED AREA AS TO MINIMIZE DISTURBED SURFACES AND TO INSURE THAT RUTS ARE NOT CREATED AND WHICH COULD CARRY WATER TO A WETLAND OR SENSITIVE AREA.
4. SUITABLE MEASURES SHALL BE TAKEN TO INSURE THAT LARGE DELIVERY TRUCKS SERVICING THE SITE DO NOT DAMAGE AREAS OF EXISTING VEGETATION OR CAUSE DISTURBANCE TO STABILIZED AREAS.

CLEARING

1. LAND CLEARING SHALL NOT BE CONDUCTED BEYOND LIMIT OF DISTURBANCE SHOWN ON PLANS.
2. ANY STUMPS GRINDINGS REUSED ON SITE SHALL BE STOCKPILED OUTSIDE OF BUFFER ZONE. STUMP GRINDINGS MAY NOT BE USED FOR EROSION CONTROL MEASURES WITHOUT PRIOR CONSENT OF CONSERVATION COMMISSION.
3. BRUSH AND BRANCHES SHOULD BE CHIPPED AND REMOVED FROM SITE OR UTILIZED FOR WOOD MULCH IF PRACTICAL.
4. VEHICLES UTILIZED IN THE CLEARING OPERATION SHALL NOT TRAVERSE WETLANDS.

GRUBBING AND STRIPPING

1. TOP SOIL SHALL BE RETAINED FOR LANDSCAPING PURPOSES.
2. GRUBBING AND STRIPPING OF SLOPES LEADING TO WETLAND AREAS SHOULD NOT BE UNDERTAKEN DURING PERIODS OF INTENSE RAINFALL.
3. WHEN WORKING IN THE VICINITY OF WETLANDS, TOP SOIL SATURATED WITH WATER SHALL BE REMOVED AND CONTAINED PRIOR TO BEING USED.
4. SLOPED AREAS LEADING TO WETLANDS SHALL HAVE EROSION CONTROL BARRIERS INSTALLED ACROSS THEM IN ARCS AT INTERVALS SUFFICIENT TO MITIGATE RUNOFF CARRYING SEDIMENT.
5. DURING PERIODS OF INTENSE RAINFALL, OR IF THE PROJECT IS TO BE LEFT FOR A PERIOD OF TIME, CONSIDERATION SHOULD BE GIVEN TO SUPPLEMENT EXISTING EROSION CONTROL DEVICES WITH CRUSHED STONE OR ARMORED BARRIERS. CONSIDERATION SHOULD ALSO BE GIVEN TO DIVERTING RUNOFF INTO TEMPORARY SEDIMENTATION CONTROL AREAS.
6. WHENEVER PRACTICAL, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED.

ROUGH GRADING

1. THE ROUGH GRADING OF THE BUILDING SITE SHALL FOLLOW STANDARD FILL AND EXCAVATION SEQUENCES, RESULTING IN SLOPES BEING DIVERTED AWAY FROM WETLANDS AND SENSITIVE AREAS AS MUCH AS IS PRACTICAL.
2. DURING THIS PROCESS THE EROSION POTENTIAL IS HIGH AND SUFFICIENT ECB OR OTHER BARRIERS SHOULD BE KEPT ON SITE TO INSURE THAT NO SEDIMENT REACHES THE WETLANDS OR OTHER SENSITIVE AREAS.
3. IN EXTENSIVE AREAS OF CUT, OR WHEN TOES OF FILL COULD DIVERT WATER INTO WETLAND AREAS, METHODS SHOULD BE TAKEN TO DIVERT WATER AWAY FROM EXCAVATED OR FILLED AREAS.
4. STEEP SLOPES IN EXCAVATION OR FILL SHOULD BE AVOIDED AS MUCH AS PRACTICABLE.
5. DISTURBED AREAS SHALL BE STABILIZED BY LOAMING AND SEEDING OR WITH STONE IMMEDIATELY AFTER THE FINISHED GRADE HAS BEEN MET. IF FINAL GRADING DOES NOT OCCUR DURING THE GROWING SEASON, THESE AREAS SHALL BE MULCHED BY STRAW SECURED BY WEIGHTED SNOW FENCE, CHICKEN WIRE MESH OR JUTE MATTING WITH APPROPRIATE SECURING DEVICES.
6. A GROUND COVER SUFFICIENT TO RESIST EROSION MUST BE PLANTED OR OTHERWISE PROVIDED WITHIN 30 WORKING DAYS, SEASON PERMITTING, ON ANY PORTION OF THE SITE UPON WHICH FURTHER ACTIVE CONSTRUCTION IS NOT BEING UNDERTAKEN.
7. CONSTRUCTION OF SWALES DURING ROUGH GRADING SHALL INCLUDE CHECK DAMS, TEMPORARY SEDIMENT BASINS, OR OTHER MEASURES TO REMOVE SEDIMENT FROM RUNOFF THAT MAY BE TRANSPORTED BY THE SWALES DURING CONSTRUCTION.

DRAINAGE

1. DRAINAGE PIPES OR SWALES SHALL BE CONSTRUCTED FROM THE DOWNSTREAM END UP AND CONSTRUCTION SHALL INCLUDE THE PLACEMENT OF OUTFALL RIP RAP AND OTHER MITIGATION MEASURE SHOWN ON THE PLAN.
2. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ECB OR OTHER SUITABLE METHODS TO ENTRAP SEDIMENT SHALL BE PLACED DOWNSTREAM
3. THE TOE OF EMBANKMENTS SHALL BE STABILIZED IMMEDIATELY, MULCHED AND TACKED DOWN BY SUITABLE MEANS.
4. IF THE PROPOSED PARKING/DRIVEWAY AREAS ARE NOT PAVED IMMEDIATELY AFTER THE GRAVEL BASE INSTALLATION, ECB SHALL BE PLACED TO PROTECT SEDIMENTATION OF THE SWALES.

WATER SUPPLY

1. CARE SHOULD BE TAKEN TO INSURE THAT THE WATER LINE TRENCH DOES NOT DIVERT RUNOFF WATER TO A WETLAND OR ONTO A ROAD WHERE IT WILL BE CARRIED INTO A WETLAND OR SENSITIVE AREA.
2. IF ANY PRIVATE WELLS ARE PROPOSED, CARE SHOULD BE TAKEN IN THE CONSTRUCTION OF THE WELL TO INSURE THAT DRILLING FLUIDS DO NOT DISCHARGE INTO A STREAM, WETLAND OR SENSITIVE AREA.
3. WELL DRILLING OPERATIONS SHALL BE SUCH THAT WETLANDS ARE NOT DISTURBED AND THE INSTALLATION OF THE WATER LINE WILL NOT DIRECT WATER TOWARDS A WETLAND AREA.

BUILDING CONSTRUCTION

1. DURING BUILDING CONSTRUCTION MATERIALS SHALL BE STOCKPILED IN A MANNER AS TO NOT DIVERT OR CONCENTRATE RUNOFF IN ORDER TO PREVENT THE TRANSPORTATION OF SEDIMENT.
2. THE LOT SHOULD BE KEPT LITTER FREE.
3. NO FUELS, SOLVENTS, PAINTS, ETC. SHALL BE STORED ON SITE UNLESS WITHIN THE BUILDING. OTHERWISE THESE PRODUCTS SHALL BE REMOVED FROM THE SITE EACH EVENING AND RETURNED THE FOLLOWING DAY.
4. BURIAL OF CONSTRUCTION DEBRIS AND RELATED MATERIALS IS PROHIBITED.
5. PLASTERERS AND PAINTERS SHALL BE INFORMED THAT THE DISCHARGE OF LIQUIDS INTO A THE DRAINAGE SYSTEM OR WETLAND OR OTHER RESOURCE AREA IS PROHIBITED.

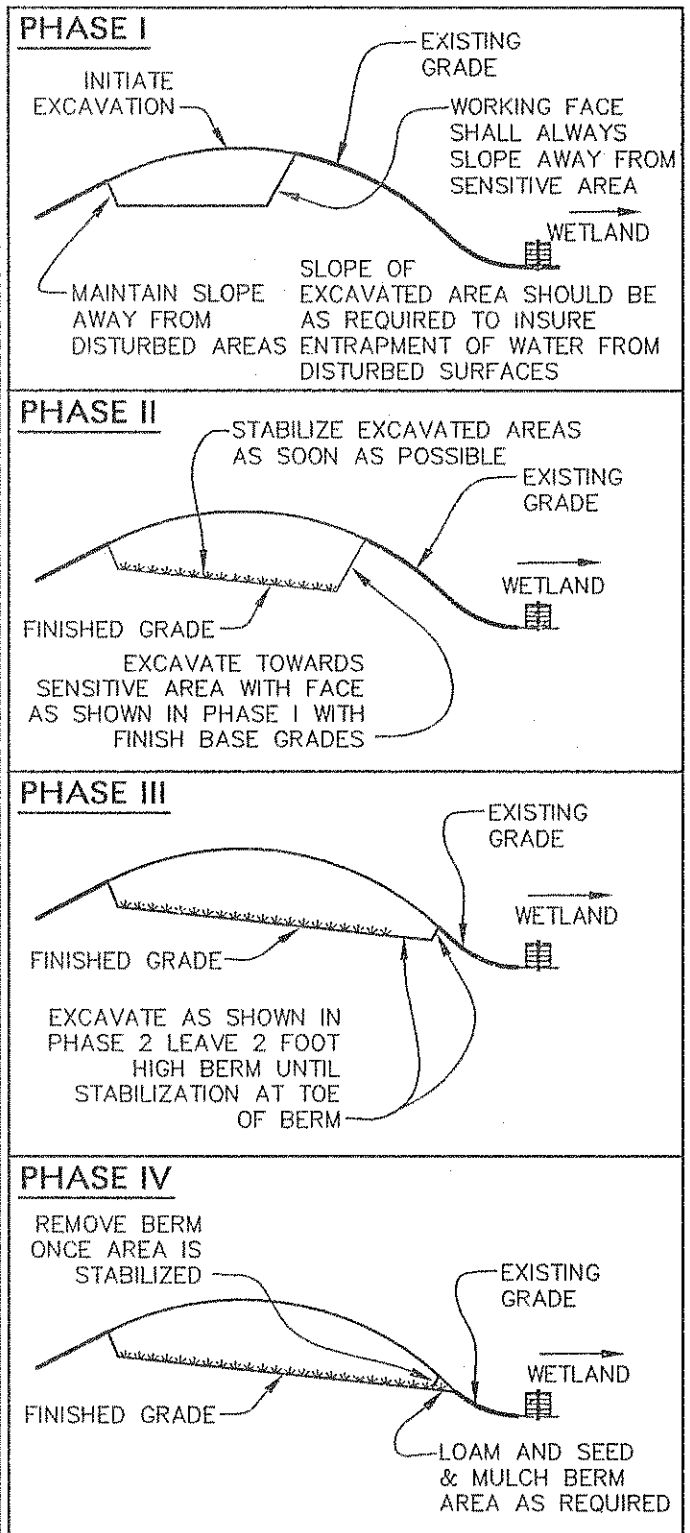
LANDSCAPING

1. LANDSCAPING OF AREAS SHOULD OCCUR AS SOON AS POSSIBLE.
2. IF THE SEASON OR ADVERSE WEATHER CONDITIONS DO NOT PERMIT THE ESTABLISHMENT OF VEGETATION TEMPORARY HAY MULCH, OR OTHER MEANS OF STABILIZATION, SHALL BE PERFORMED.
3. THE USE OF HERBICIDES MAY BE SUBJECT TO LOCAL OR STATE REGULATIONS.
4. CARE SHOULD BE TAKEN WITH FERTILIZERS SUCH THAT THEY ARE NOT CARRIED TO A WETLAND OR SENSITIVE AREA.
5. TRUNKS OF TREES SHOULD NOT BE COVERED WITH MORE THAN TWO (2) INCHES OF SOIL.
6. STUMPS SHALL BE GROUND INTO MULCH AND UTILIZED OR REMOVED FROM THE SITE.

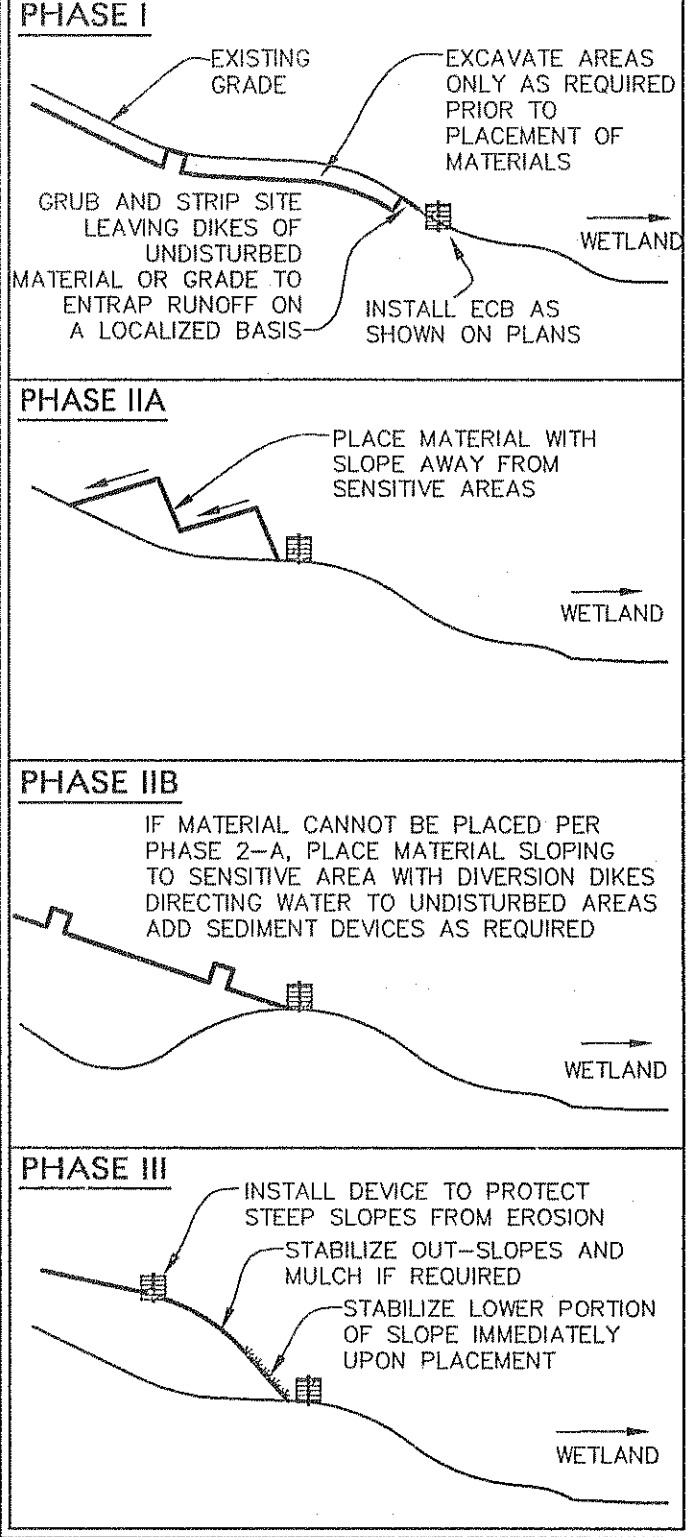
CREATION OF STORMWATER BASINS

1. THE STORMWATER BASIN HAS BEEN PLACED AS A SEPARATE ITEM TO EMPHASIZE THE IMPORTANCE OF EROSION CONTROL DURING ITS CONSTRUCTION.
2. THE PRIMARY EROSION CONTROL METHOD FOR BASIN CONSTRUCTION, AS WELL AS THE SITE, IS THE RAPID STABILIZATION OF ALL SURFACES. SECONDARY IN IMPORTANCE IS TO AVOID CONCENTRATION OF RUNOFF IN ORDER TO PREVENT THE TRANSPORTATION OF SEDIMENT.
3. DURING CONSTRUCTION THE FILL AND EXCAVATION SEQUENCES SHOWN ON THIS PLAN SHOULD BE UTILIZED. THESE SEQUENCES REQUIRE THAT SLOPED AREAS LEFT FOR ANY PERIOD OF TIME SHALL NOT BE SLOPED TOWARDS THE WETLAND OR SENSITIVE AREA, BUT RATHER BACK INTO THE FILL MATERIAL.
4. THE BASIN BERM IS TO BE CONSTRUCTED BY EQUIPMENT WORKING ON STABLE MATERIAL ONLY. ECB BE PLACED AT THE TOE OF SLOPE UNTIL SURFACES ARE STABILIZED.
5. NO EXCAVATION WITHIN THE BASIN SHALL COMMENCE UNTIL THE BERM IS IN PLACE.
6. TOPSOIL REMOVED FROM THE BASIN AREA SHOULD BE RESERVED FOR FINISH GRADING AND THE STABILIZATION OF DISTURBED AREAS.
7. IF DEWATERING IS NECESSARY, PUMPING TO A SETTling BASIN SHALL BE PERMITTED IF THE BASIN IS CONSTRUCTED, MAINTAINED AND OPERATED EFFECTIVELY.
8. AT NO TIME SHALL SEDIMENT LADEN RUNOFF BE ALLOWED TO FLOW TO THE WETLANDS OR THE INFILTRATION SECTION OF THE STORMWATER BASIN.
9. THE INFILTRATION SECTION OF THE STORMWATER BASIN SHALL NOT BE CONSTRUCTED UNTIL THE SITE HAS BEEN SUBSTANTIALLY STABILIZED.
10. NO RUNOFF SHALL BE ALLOWED TO DRAIN INTO THE SAND FILTER UNTIL THE SITE IS COMPLETELY STABILIZED.
10. ALL MATERIAL STOCKPILES SHALL BE LOCATED, MULCHED OR OTHERWISE TREATED TO INSURE THAT MATERIALS CONTAINED THEREIN ARE NOT CARRIED INTO THE WETLANDS.
11. ANY MATERIALS CARRIED BY WATER INTO WETLANDS SHALL BE PROMPTLY REMOVED AS REQUIRED BY THE LOCAL CONSERVATION COMMISSION.
12. ADDITIONAL NOTES REGARDING THE STORMWATER BASIN CONSTRUCTION ARE SHOWN ON THE CONSTRUCTION DETAILS.

EXCAVATION SEQUENCE



FILL SEQUENCE



HERITAGE DESIGN GROUP

PLANNERS • SURVEYORS • ENGINEERS
LANDSCAPE ARCHITECTS

ONE MAIN STREET
WHITINSVILLE, MASSACHUSETTS 01558
TEL 508-266-2066 • FAX 508-266-2067
A LIMITED LIABILITY COMPANY

Applicant
Nature's Remedy of Massachusetts, Inc.
497 Hookset Road, Suite 190
Manchester, New Hampshire 03104

Owner of Record
85 Green Street Limited Partnership
PO Box 55
Worcester, Massachusetts 01613-0055

ASSESSORS IDENTIFICATION
110 / 005.0-0000-0001.J

SITE PLAN APPROVAL & SPECIAL PERMIT
GRAFTON PLANNING BOARD

BEING A MAJORITY DATE

REVISIONS

4	8/14/17	CONSERVATION/GRAVES REVIEW	EJB
3	7/7/17	CLIENT & GRAVES REVIEW	EJB
2	6/19/17	PLANNING COMMENTS	EJB
1	6/6/17	CONSERVATION REVIEW	EJB
NO.	DATE	DESCRIPTION	BY

8 Millennium Drive

Site Plan
In The Town Of
Grafton, Massachusetts
For
Nature's Remedy
of Massachusetts, Inc.
497 Hookset Road, Suite 190
Manchester, New Hampshire 03104

SCALE: 1" = 40' DATE: May 8, 2017

JOB NUMBER:	2016-063	DRAWING FILE NAME:	-SP1
DRAWN BY:	EJB	CHECKED BY:	MEA

CONSTRUCTION PHASING PLAN
SHEET 8 OF 13



SHEET NO. 1

SEAL

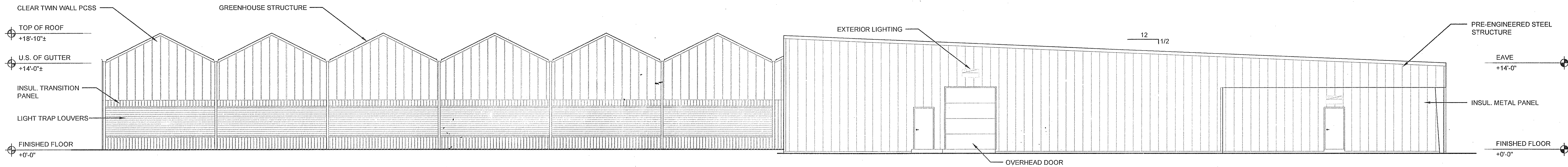
PROJECT NO.
17096

DATE	JUNE 29, 2017
DRAWING TITLE	OVERALL FLOOR PLAN

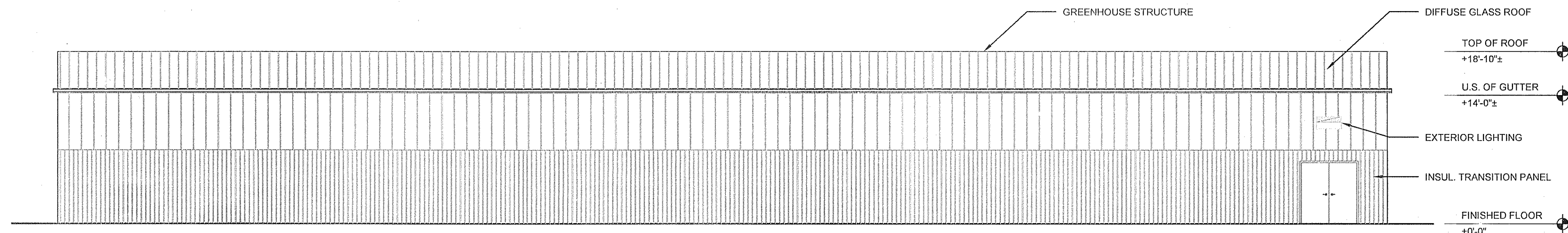
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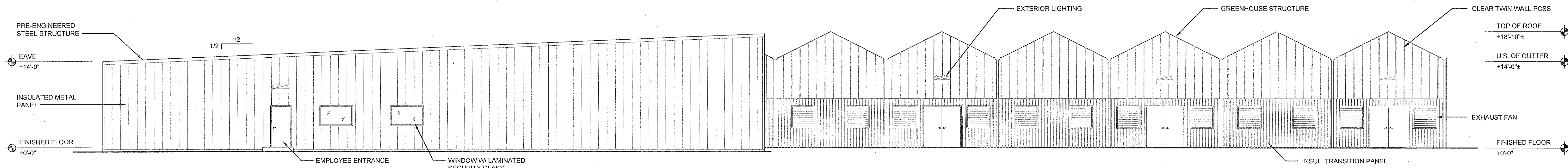
Fengel Architects, LLC
1854 Lincoln Highway East
Lancaster, PA 17602
(717)392-8021, fax 392-7140



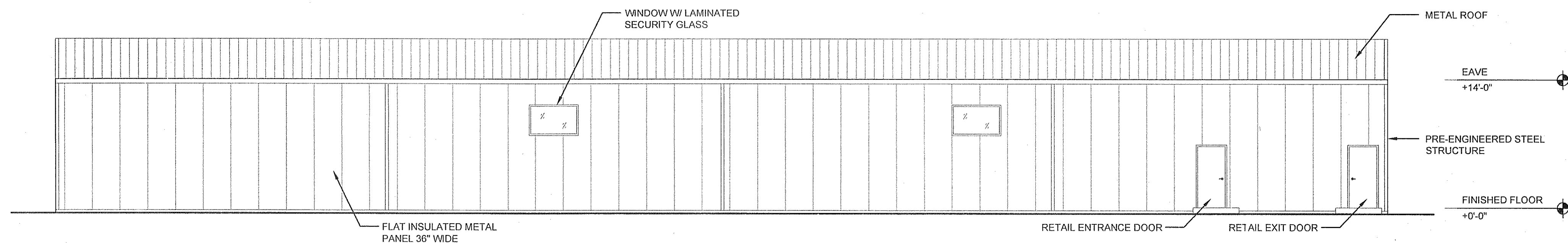
4 EAST ELEVATION
A2.1 SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION
A2.1 SCALE: 1/8" = 1'-0"



2 WEST ELEVATION
A2.1 SCALE: 1/8" = 1'-0"



1 NORTH ELEVATION
A2.1 SCALE: 1/8" = 1'-0"

PRELIMINARY - NOT FOR CONSTRUCTION

Engel Architects, LLC
1854 Lincoln Highway East
Lancaster, PA 17602
(717) 392-8021, fax 392-7140

PROPOSED GROW/PROCESS FACILITY FOR
Nature's Remedy
of Massachusetts
8 Millennium Drive
Grafton, MA 01536

SEAL

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TO PROCEEDING WITH THE WORK.

PROJECT NO.
17096

MANAGED BY
D. ENGEL

DRAWN BY
J. FREY

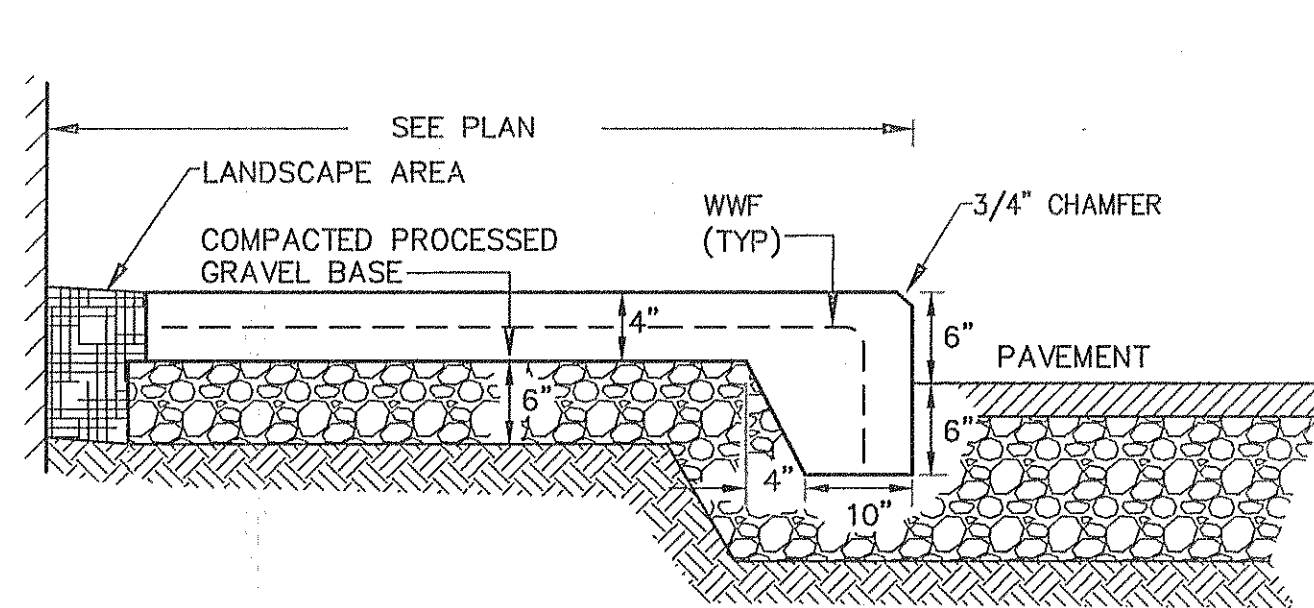
REVISIONS

DATE
JUNE 29, 2017

DRAWING TITLE
EXTER. ELEVATIONS

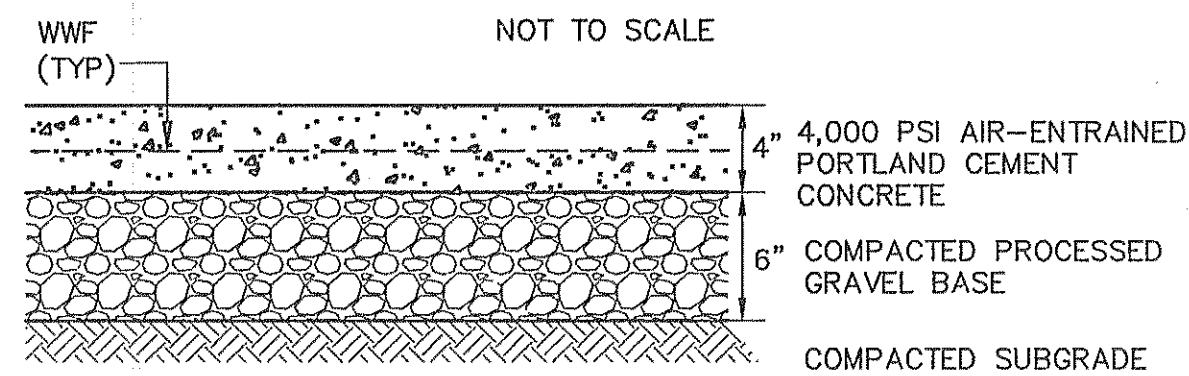
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CEMENT CONCRETE SIDEWALK AT BUILDING

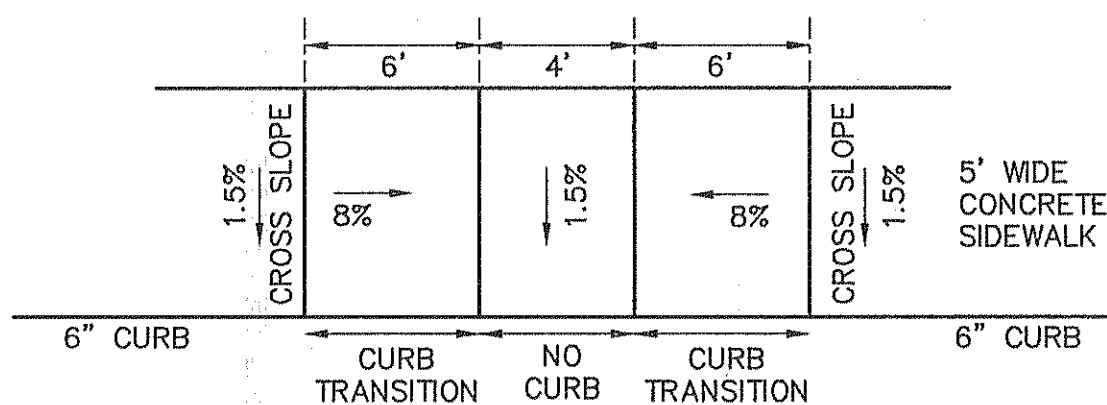
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CEMENT CONCRETE SIDEWALK

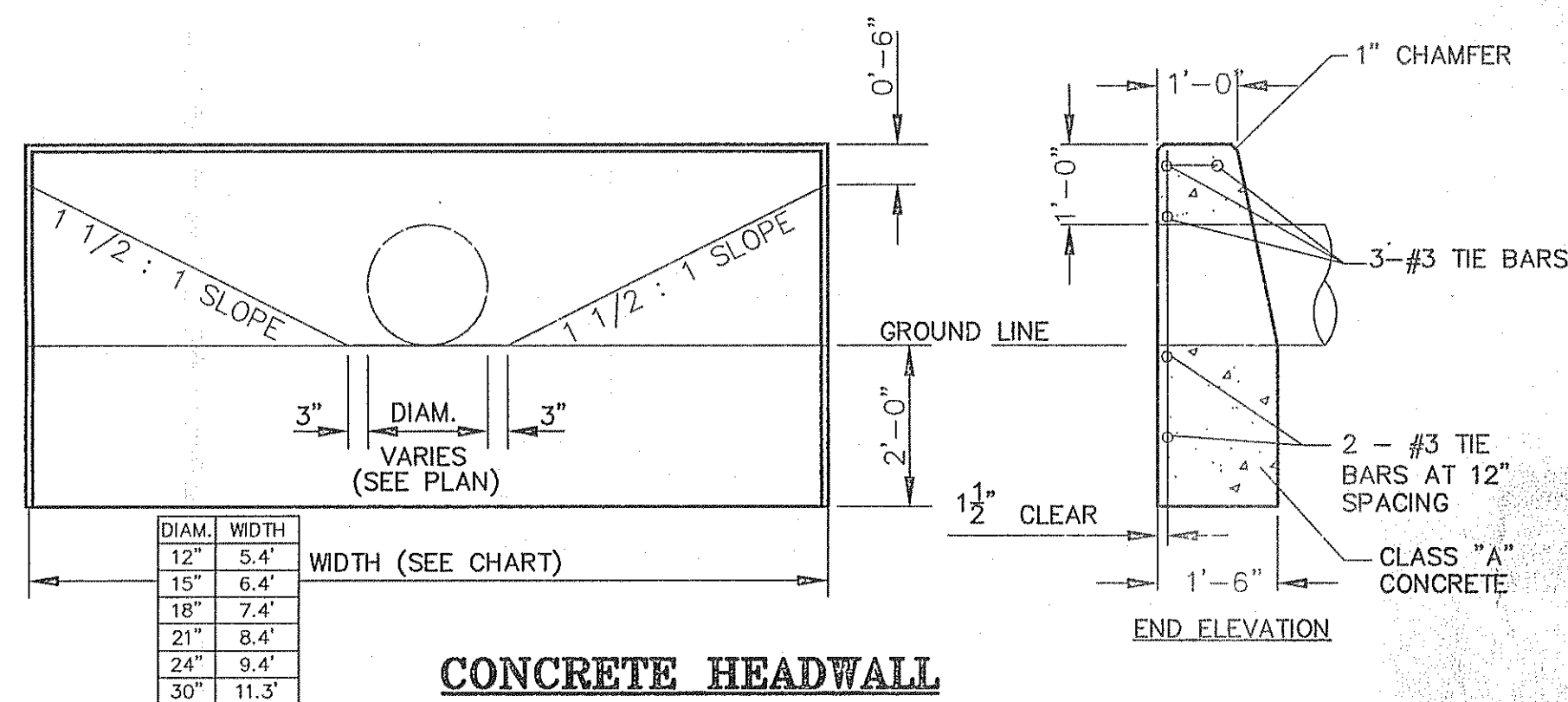
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- SIDEWALK NOTES:**
1. SIDEWALK SHALL BE 5' WIDE WITH CONSTRUCTION JOINTS EVERY 5' AND 1/2" EXPANSION JOINTS EVERY 25' WITH 10 GA. 6X6 WWF AT MID DEPTH. POURING OF SLABS SHALL ALTERNATE IN 30' SECTIONS. CURING TIME FOR TRAFFIC MINIMUM 72 HOURS.
 2. CONCRETE SLUMP TO BE 2" PLUS OR MINUS 1/2"
 3. CROSS SLOPE OF SIDEWALK TO BE BETWEEN 1/8" PER FT AND 3/16" PER FT (1.0% AND 1.5%) AND DRAIN TOWARD PAVEMENT
 4. SIDEWALK SHALL CONFORM TO MDOT SEC. 7.01 & SECTION M4.



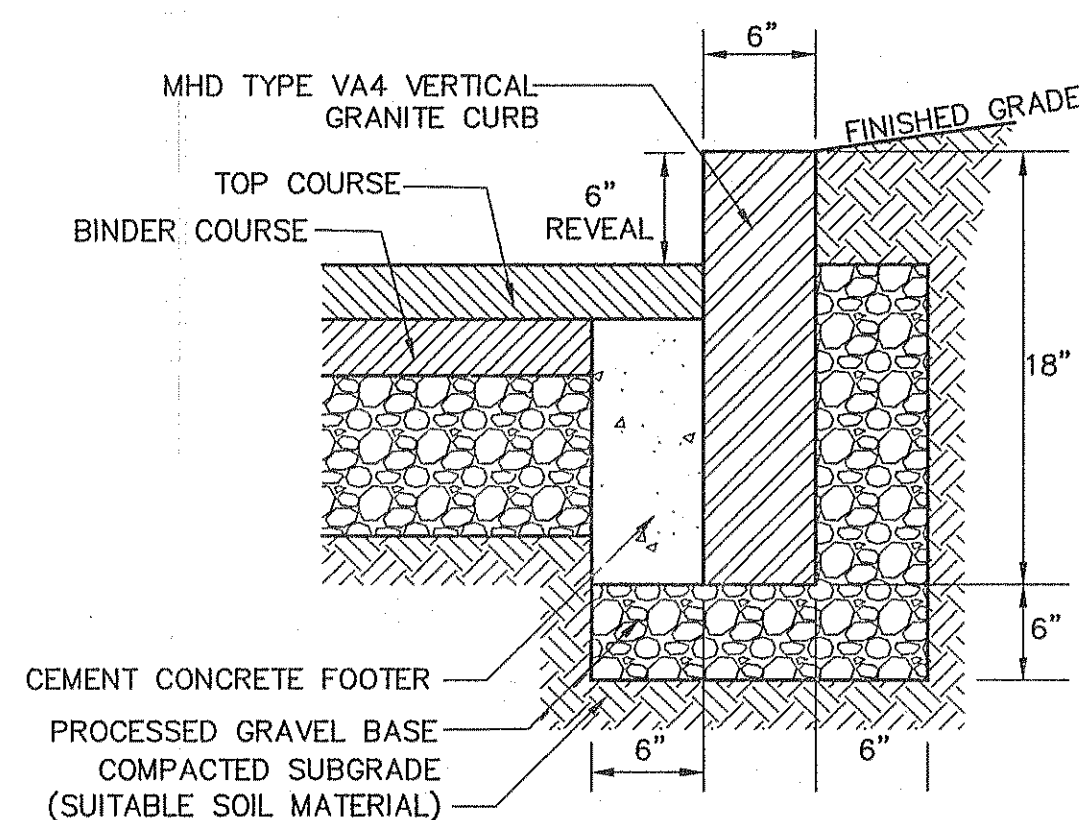
WHEELCHAIR RAMP

NOT TO SCALE



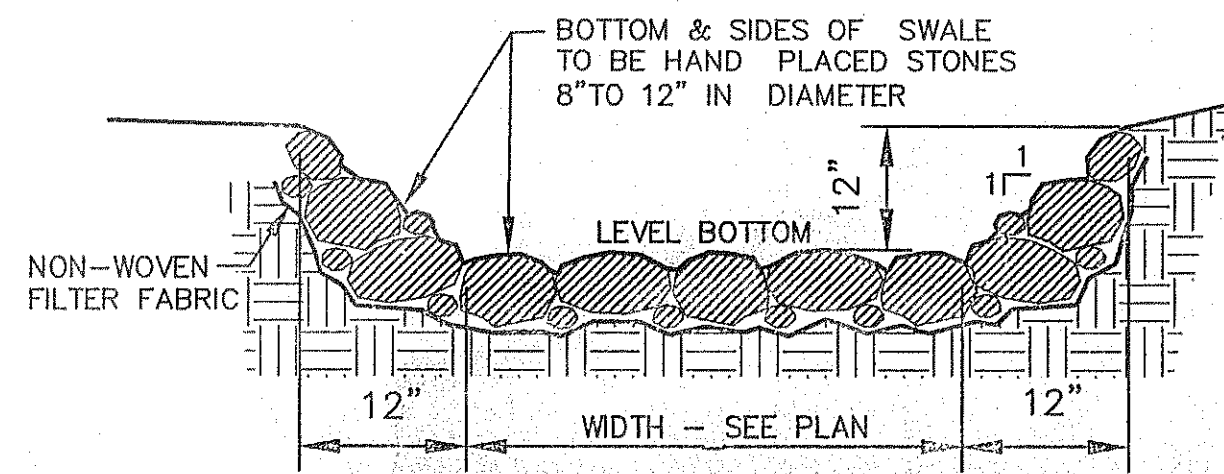
CONCRETE HEADWALL

NOT TO SCALE



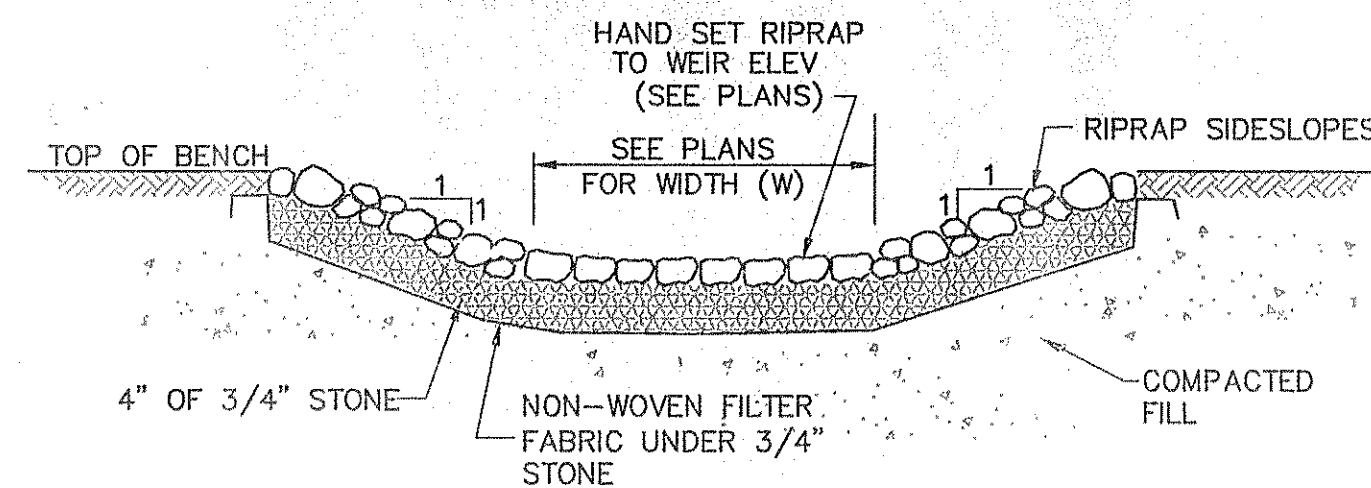
VERTICAL GRANITE CURB

NOT TO SCALE



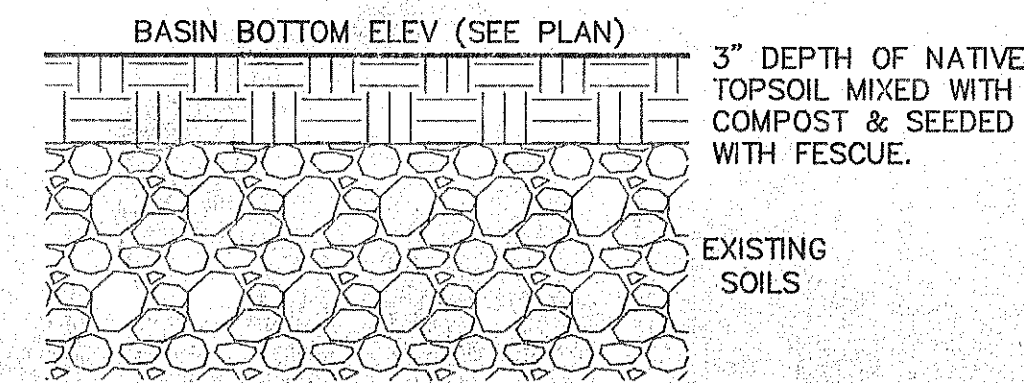
RIPRAP SWALE SECTION

NOT TO SCALE



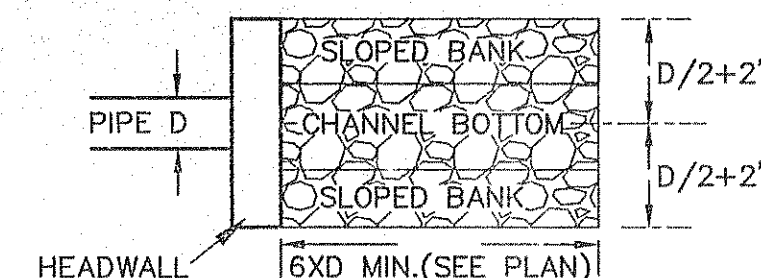
RIPRAP SPILLWAY SECTION

NOT TO SCALE



INFILTRATION BASIN CROSS-SECTION

NOT TO SCALE

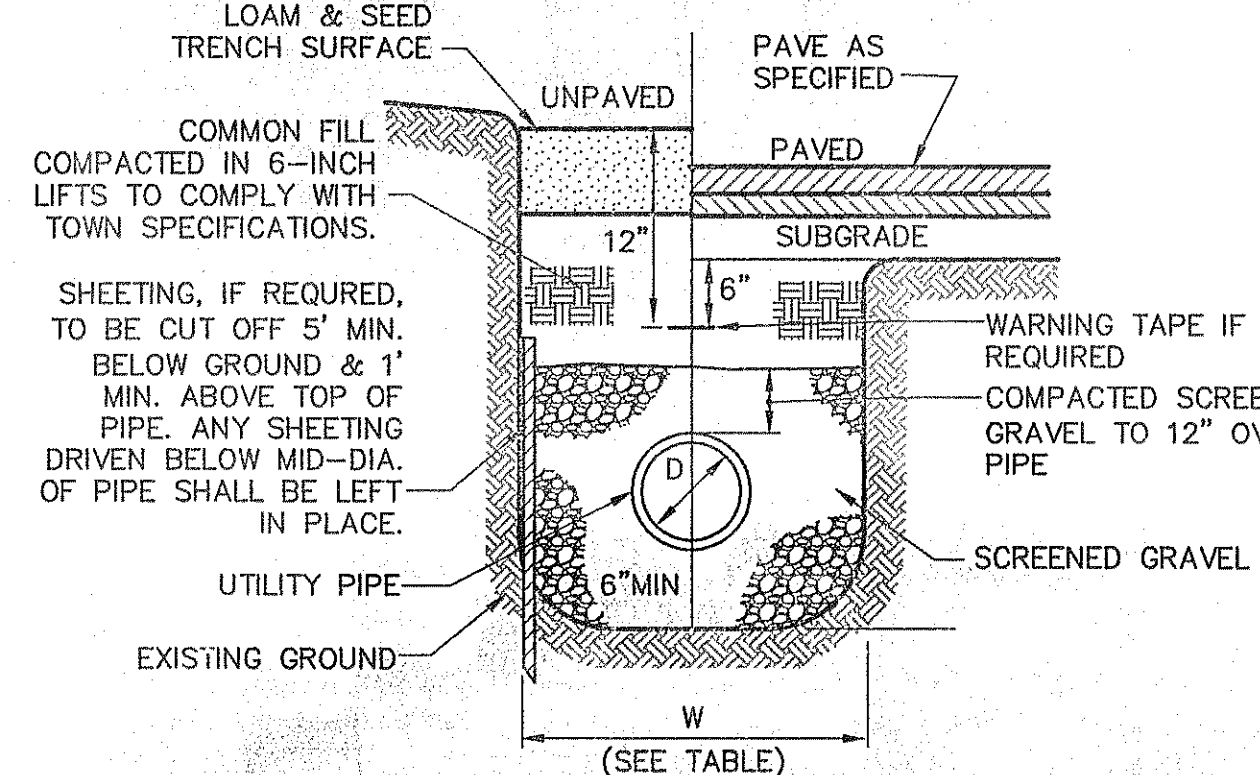


1. RIPRAP TO BE 12" MIN. DEPTH & PLACED ON NONWOVEN FILTER FABRIC.
2. 6" MINIMUM DEPTH SAND BEDDING BELOW FILTER FABRIC.
3. MIN. STONE 6" DIAMETER, MAX. STONE 80 LBS.
4. MIN. 75% OF STONE TO BE MIN. 50 LBS.

HEADWALL RIPRAP

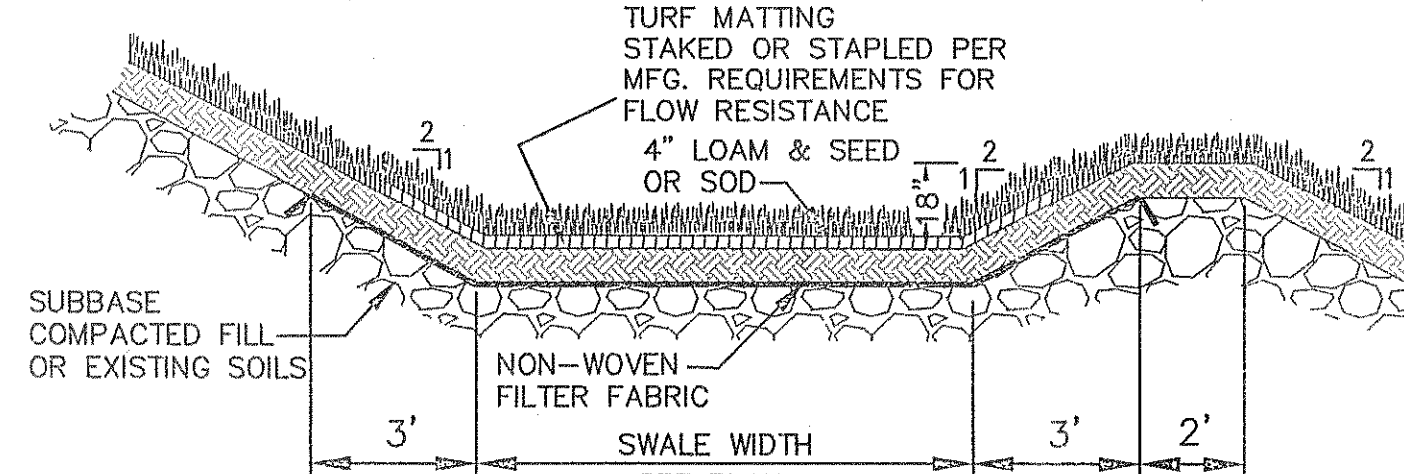
NOT TO SCALE

TRENCH WIDTH (W)		
D	W	W
DIAMETER OF PIPE	UNSHEATHED	SHEATHED
TO 12"	3'	4'
14" TO 24"	4'	5'
30" TO 36"	5'	6'



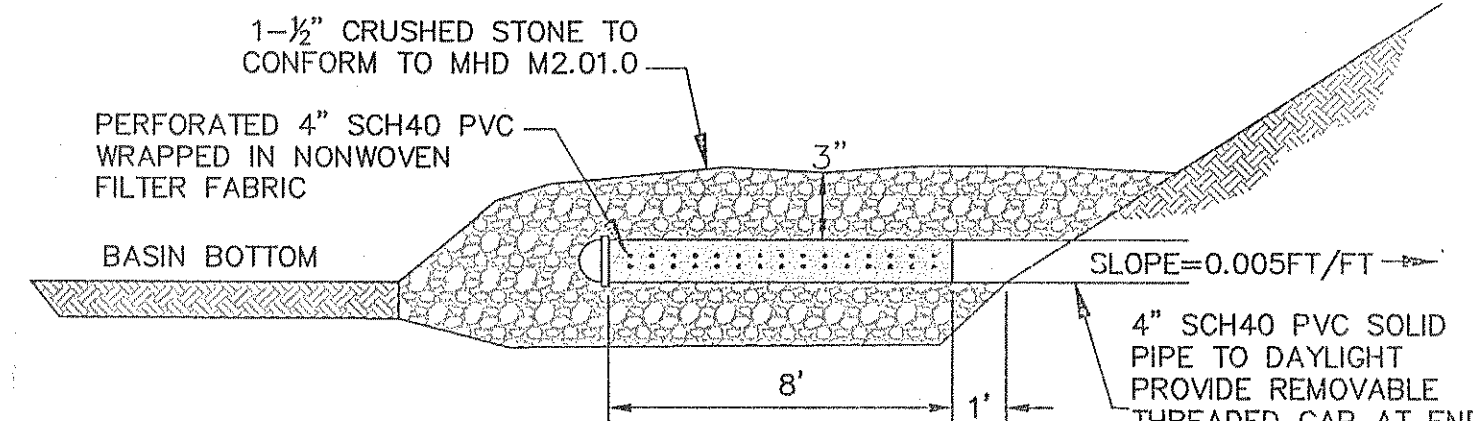
TYPICAL TRENCH SECTION

NOT TO SCALE



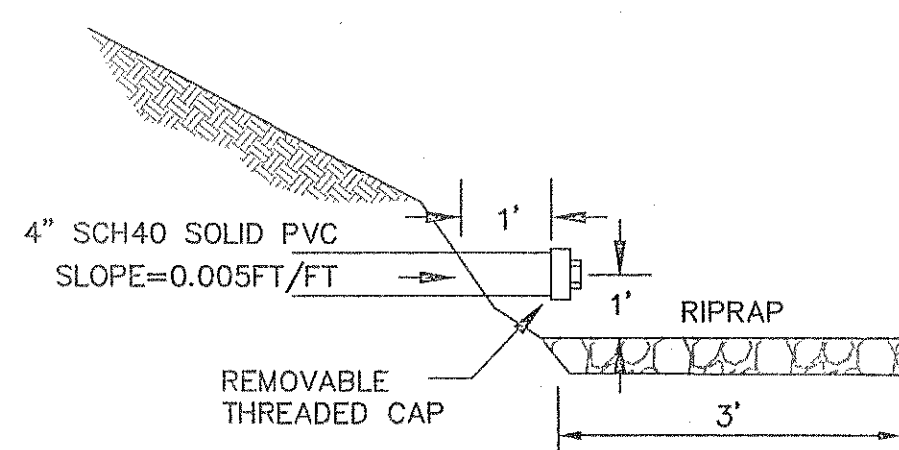
GRASS SWALE SECTION

NOT TO SCALE



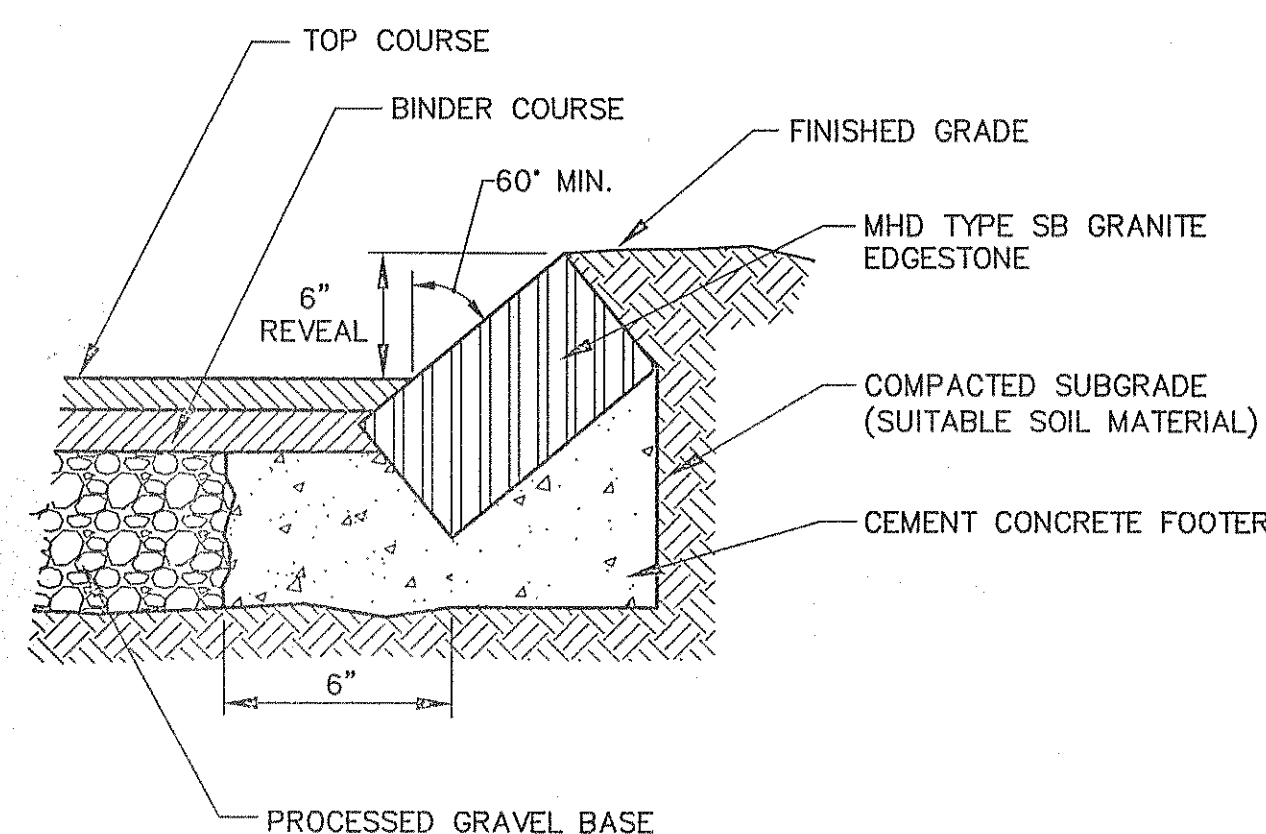
MAINTENANCE DRAIN INLET

NOT TO SCALE



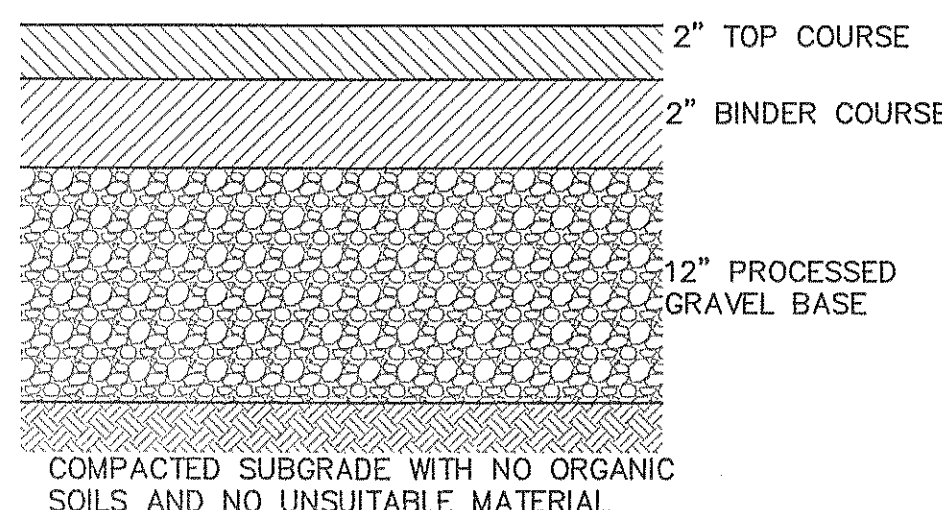
MAINTENANCE DRAIN OUTLET

NOT TO SCALE



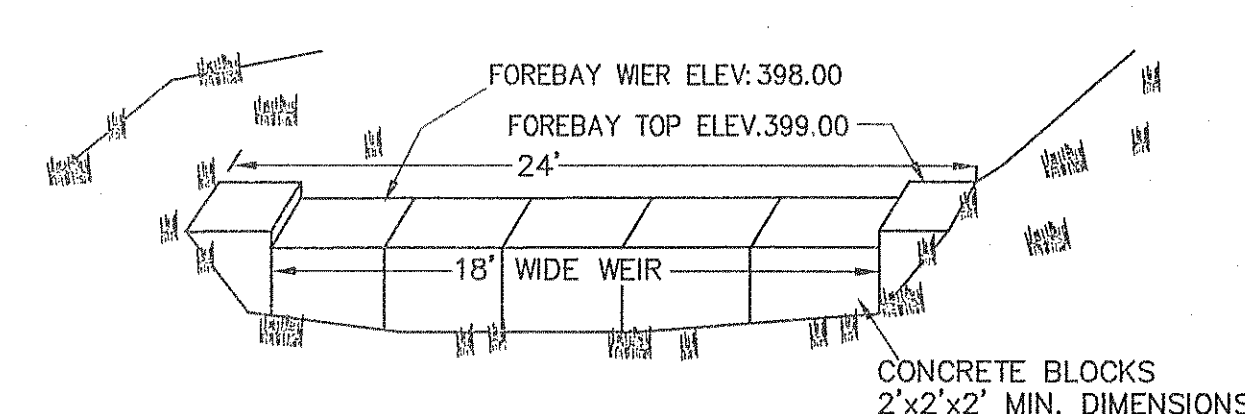
SLOPED GRANITE EDGING (SGE)

NOT TO SCALE



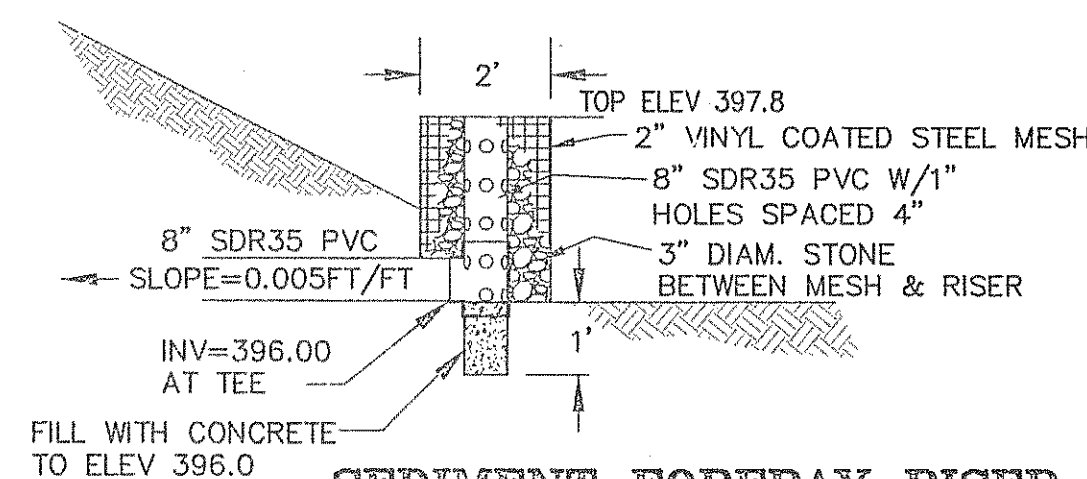
PAVEMENT CROSS-SECTION

NOT TO SCALE



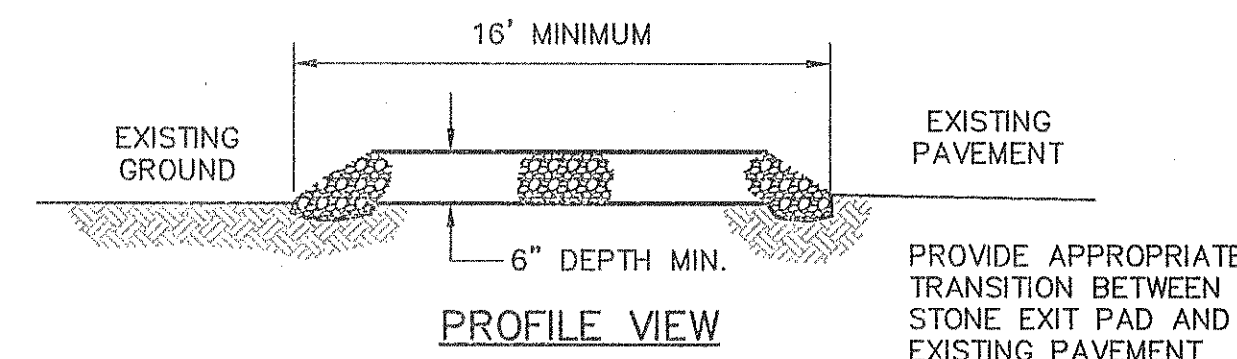
SEDIMENT FOREBAY SPILLWAY

NOT TO SCALE

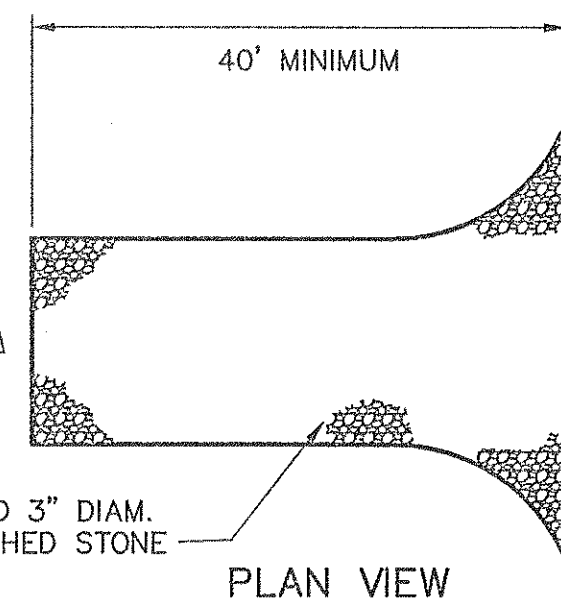


SEDIMENT FOREBAY RISER

NOT TO SCALE



PROFILE VIEW

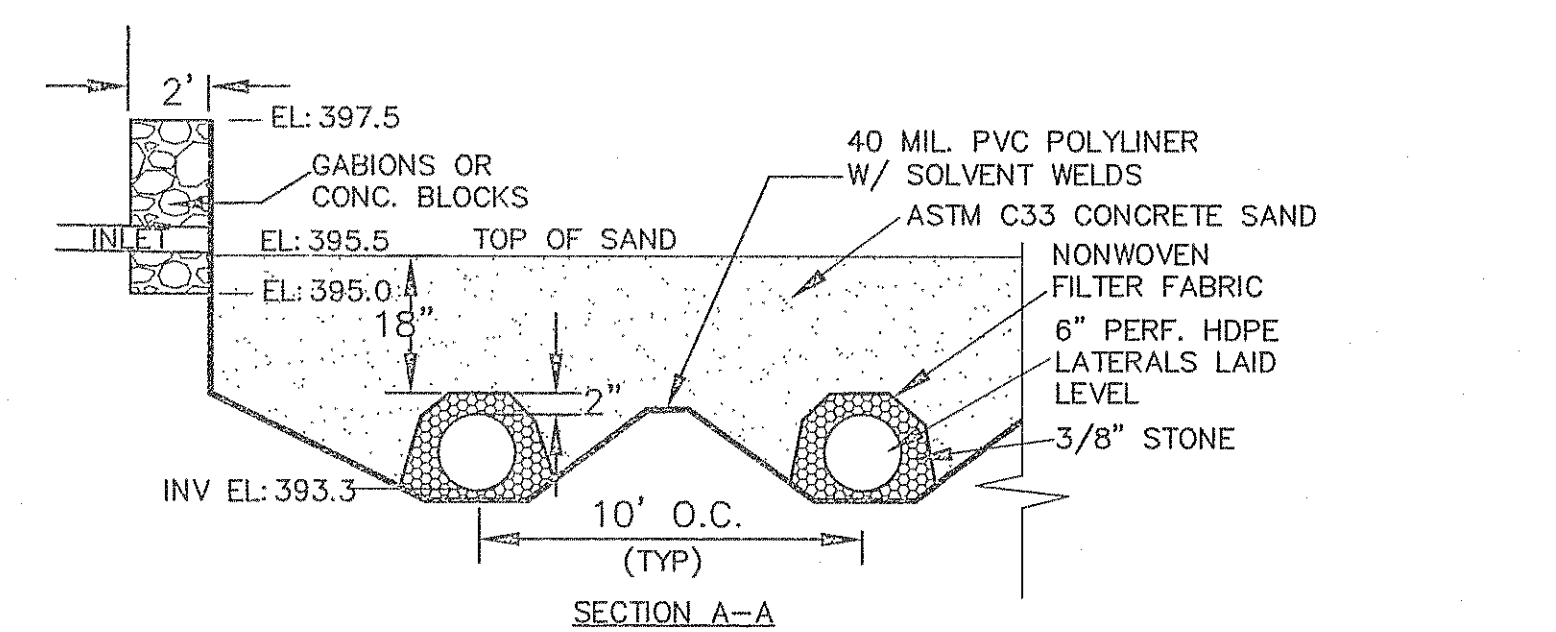


PLAN VIEW

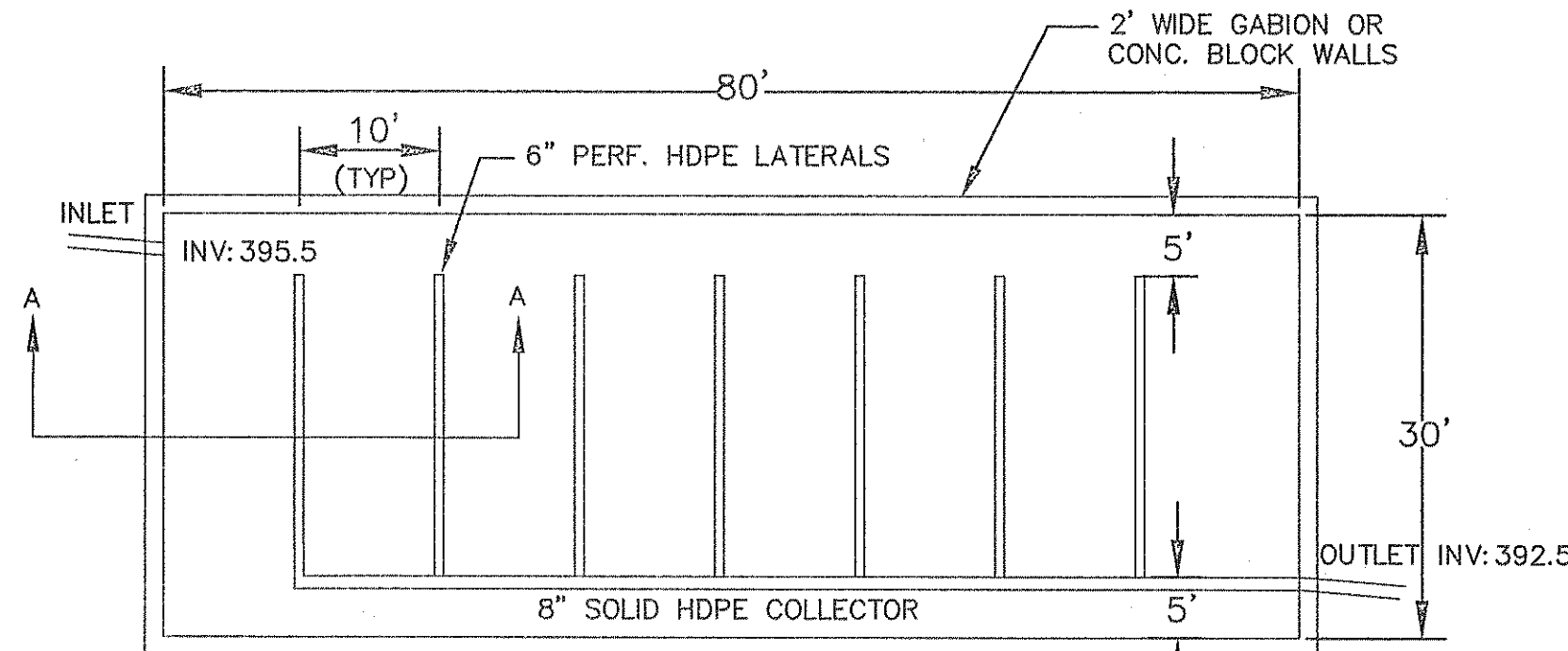
THE EXIT PAD SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO EXISTING PAVEMENT SHALL BE REMOVED BY END OF DAY.

STONE EXIT PAD

NOT TO SCALE



SECTION A-A



PLAN VIEW

SAND FILTER

NOT TO SCALE

HERITAGE DESIGN GROUP

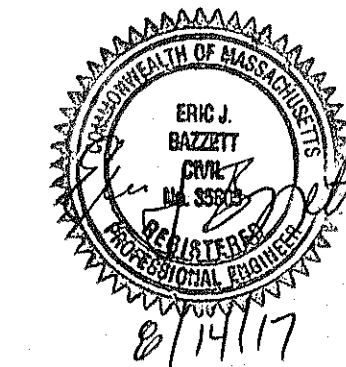
PLANNERS • SURVEYORS • ENGINEERS
LANDSCAPE ARCHITECTS

ONE MAIN STREET
WHITINSVILLE, MASSACHUSETTS 01588
TEL 508-266-2066 • FAX 508-266-2067
A LIMITED LIABILITY COMPANY

Applicant
Nature's Remedy of Massachusetts, Inc.
497 Hookset Road, Suite 190
Manchester, New Hampshire 03104

Owner of Record
85 Green Street Limited Partnership
PO Box 55
Worcester, Massachusetts 01613-0055

ASSESSORS IDENTIFICATION
110 / 005.0-0000-0001.J



SITE PLAN APPROVAL & SPECIAL PERMIT
GRAFTON PLANNING BOARD

BEING A MAJORITY **DATE**

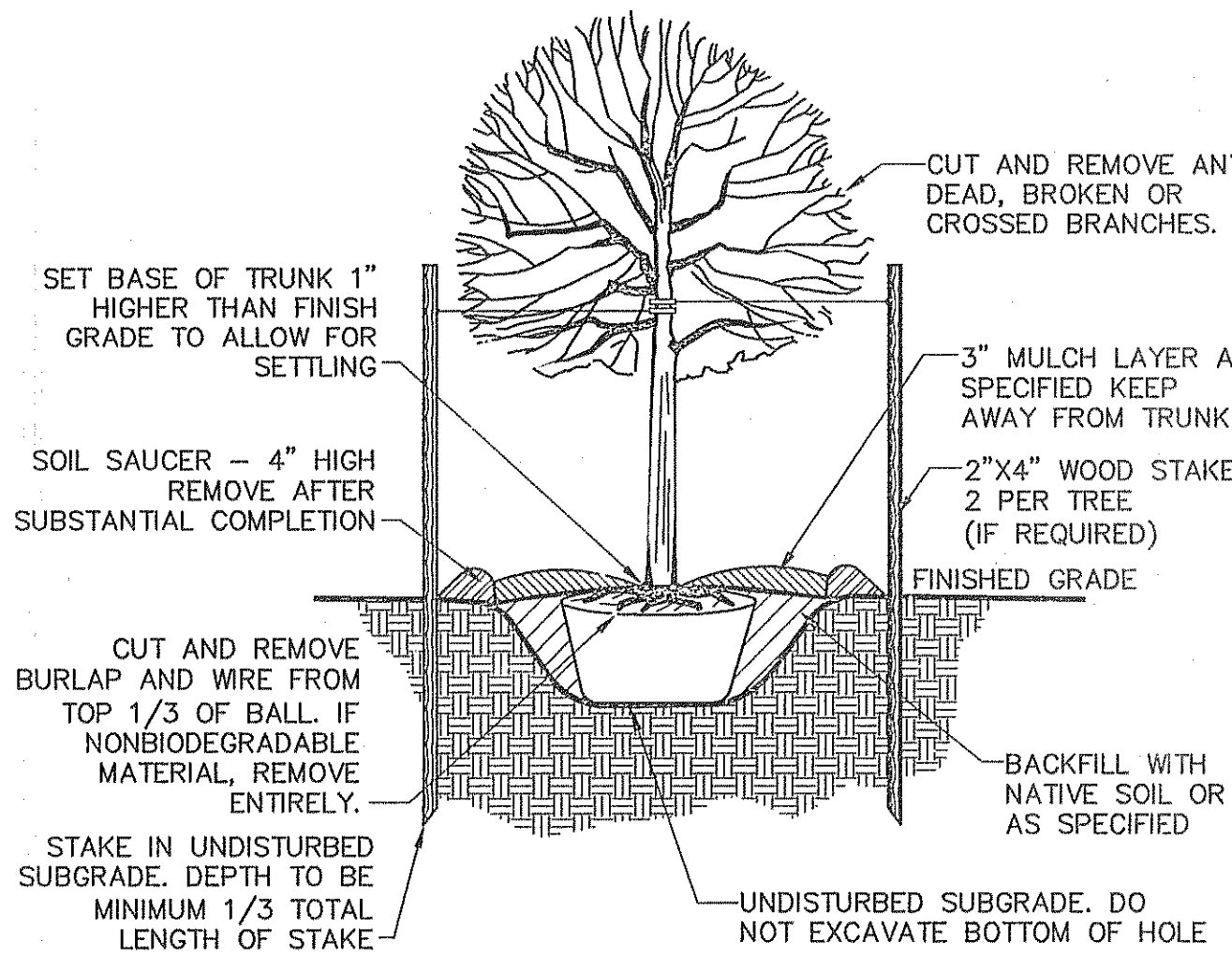
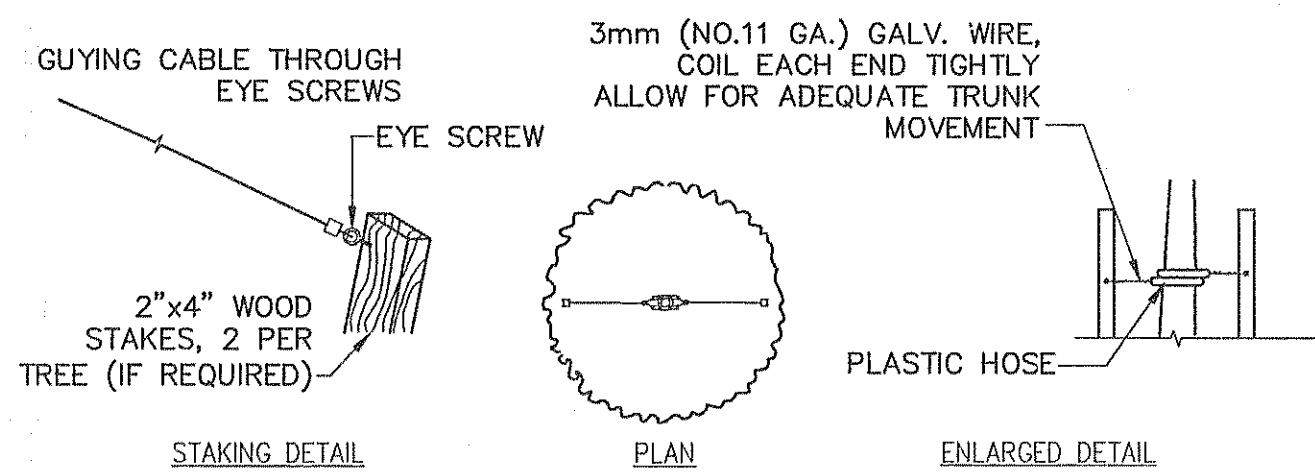
REVISIONS

4	8/14/17	CONSERVATION/GRAVES REVIEW	EJB
3	7/7/17	CLIENT & GRAVES REVIEW	EJB
2	6/19/17	PLANNING COMMENTS	EJB
1	6/6/17	CONSERVATION REVIEW	EJB
NO.	DATE	DESCRIPTION	BY

8 Millennium Drive
Site Plan
In The Town Of
Grafton, Massachusetts
For
Nature's Remedy
of Massachusetts, Inc.
497 Hookset Road, Suite 190
Manchester, New Hampshire 03104

SCALE: 1" = 40' **DATE:** May 8, 2017
JOB NUMBER: 2016-063 **DRAWING FILE NAME:** -SP1
DRAWN BY: EJB **CHECKED BY:** MEA

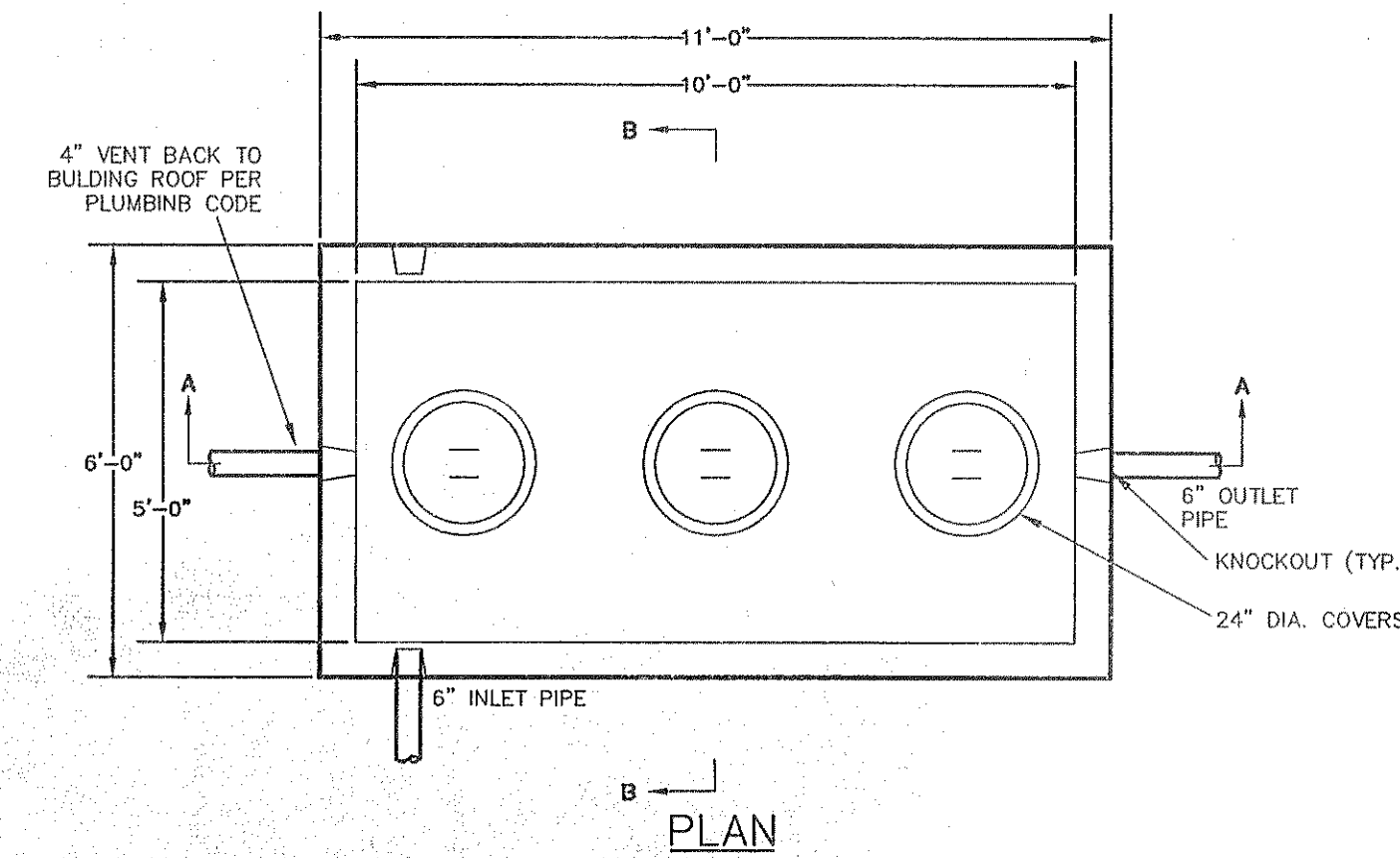
CONSTRUCTION DETAILS 1
SHEET 11 OF 13



- NOTES:**
- DO NOT DAMAGE MAIN ROOTS OR ROOT BALL WHEN INSTALLING TREE STAKE.
 - WATER THOROUGHLY AFTER INSTALLATION.
 - PROVIDE DRAINAGE FOR PLANTING PIT IF IN IMPERMEABLE SOIL.
 - STAKES AND CABLES REQUIRED ONLY FOR TREE 3" CALIPER AND LARGER.

TREE PLANTING

NOT TO SCALE

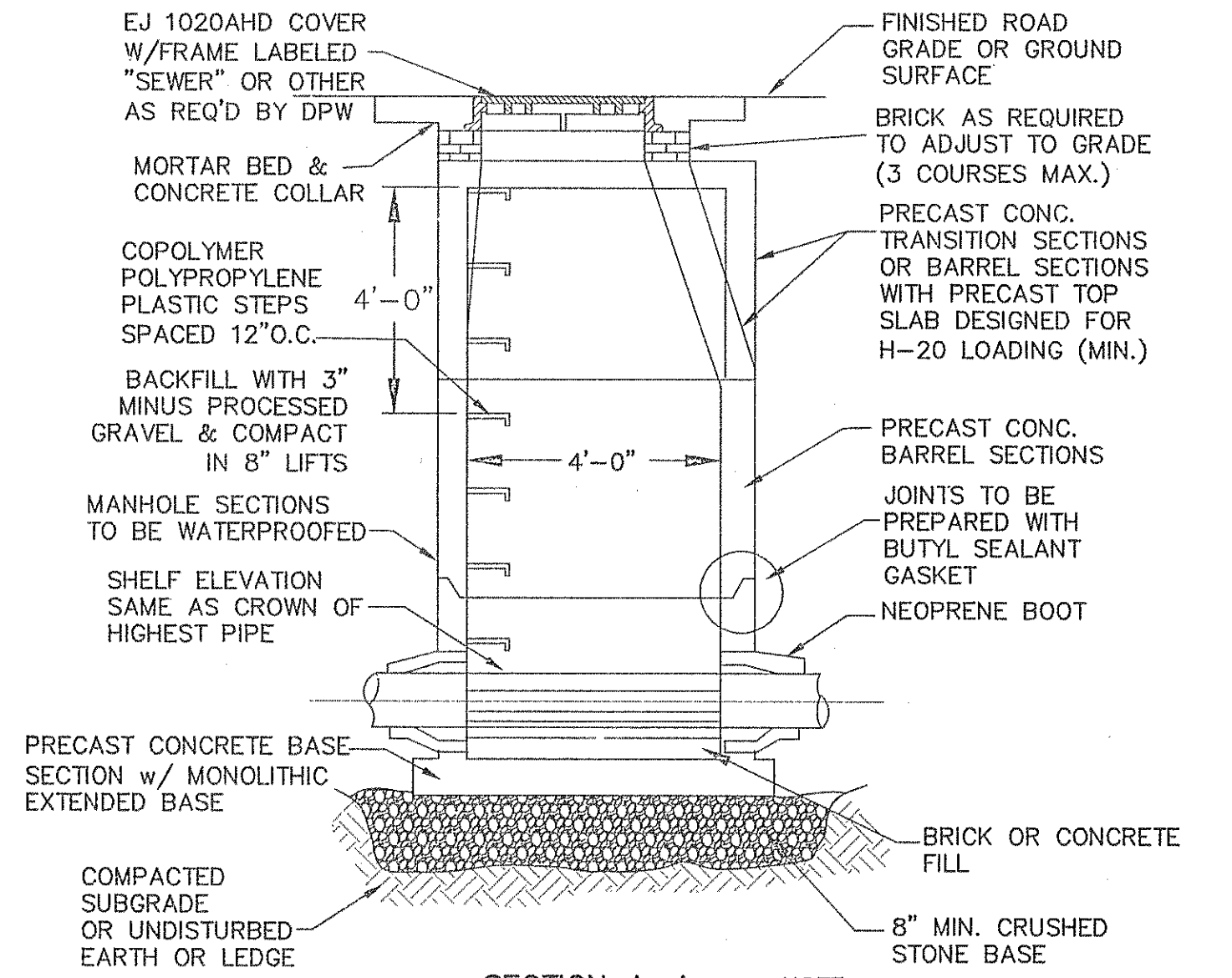
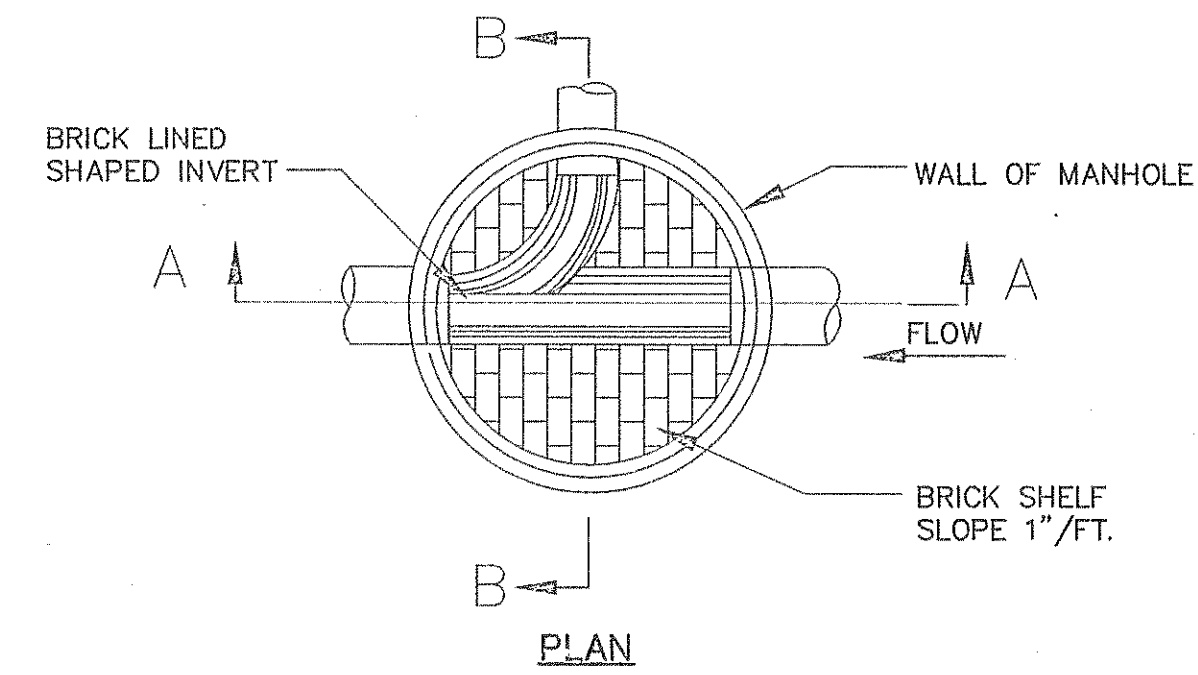
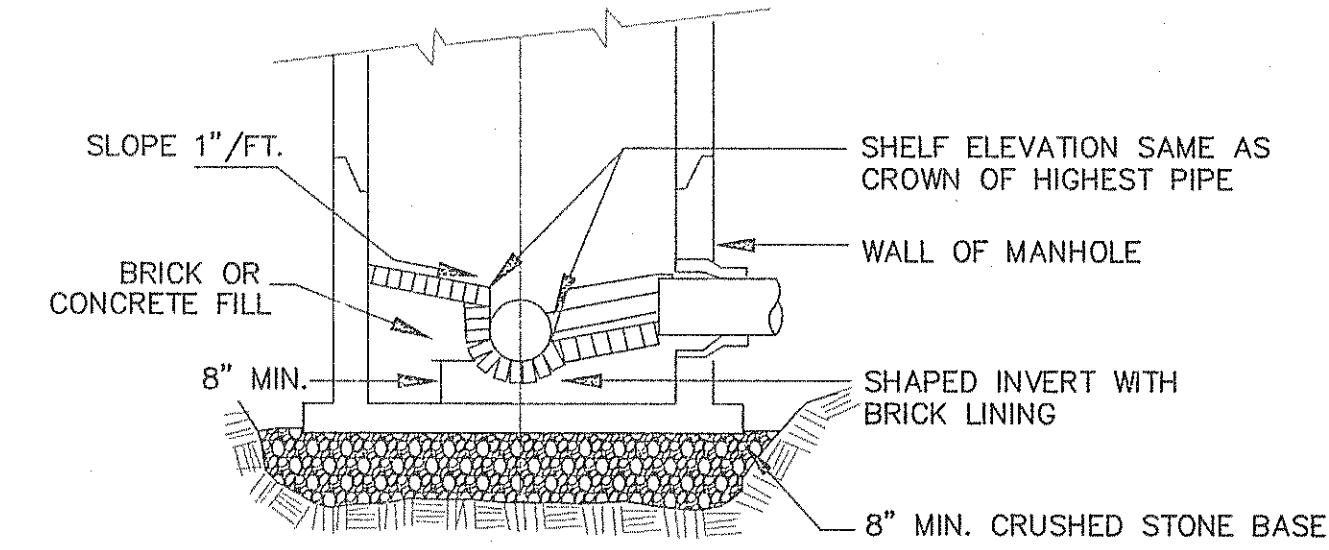


1500 GALLON GREASE TRAP

NOT TO SCALE

NOTES

- CONCRETE: 5,000 PSI 28 DAY COMPRESSIVE STRENGTH.
- STEEL REINFORCEMENT: ASTM A-615, GRADE 60.
- DESIGN LOADING: AASHTO HS20-44.
- CONSTRUCTION JOINT TO BE SEALED WITH 1" DIA. BUTYL RUBBER OR EQUAL.
- GENERAL CONTRACTOR TO VERIFY ALL OPENINGS, SIZES AND LOCATIONS.
- ACCESS COVERS AND FRAMES TO BE HEAVY DUTY CAST IRON AND WATERTIGHT, RISERS SHALL BE H-20 AND WATERTIGHT.



PRECAST SEWER MANHOLE

NOT TO SCALE

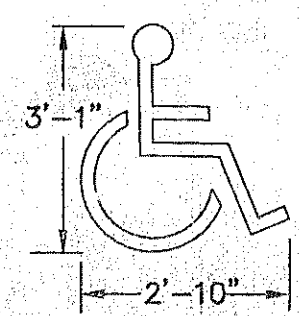
NOTE: SEWER MANHOLES THAT ARE MORE THAN 14' OR DEEPER SHALL HAVE AN EXTENDED BASE STRUCTURE.



NOTE: SIGNS TO COMPLY WITH ALL ADA REQUIREMENTS

HANDICAPPED PARKING SIGNS

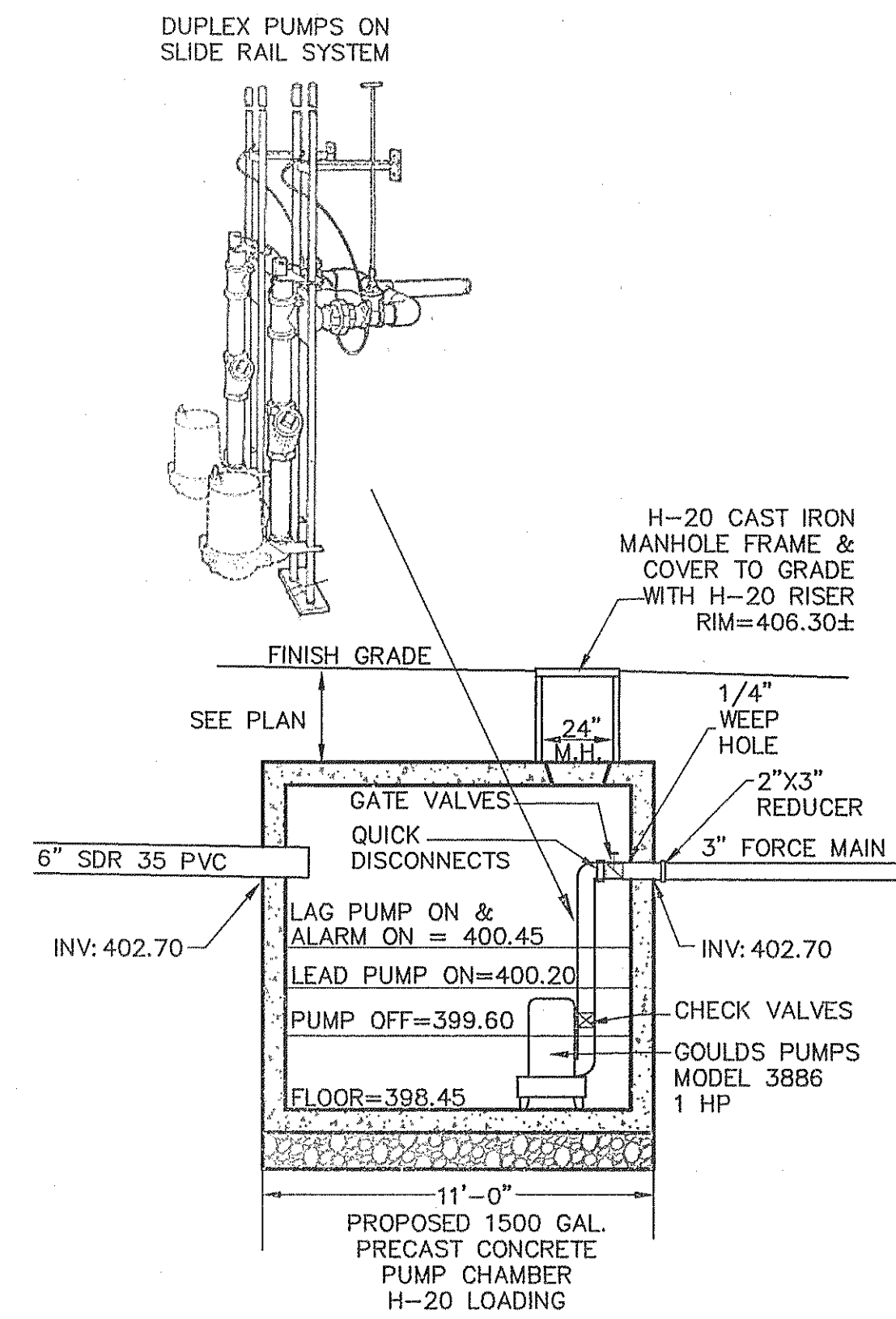
NOT TO SCALE



NOTE: STRIPING TO COMPLY WITH ALL ADA REQUIREMENTS

HANDICAPPED PARKING STRIPING

NOT TO SCALE

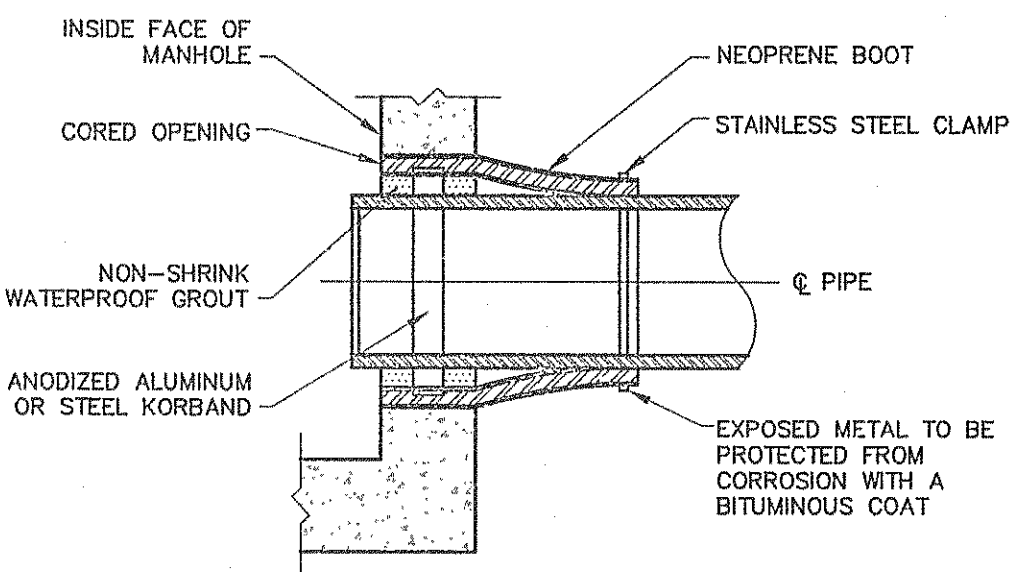


SEWER PUMP CHAMBER

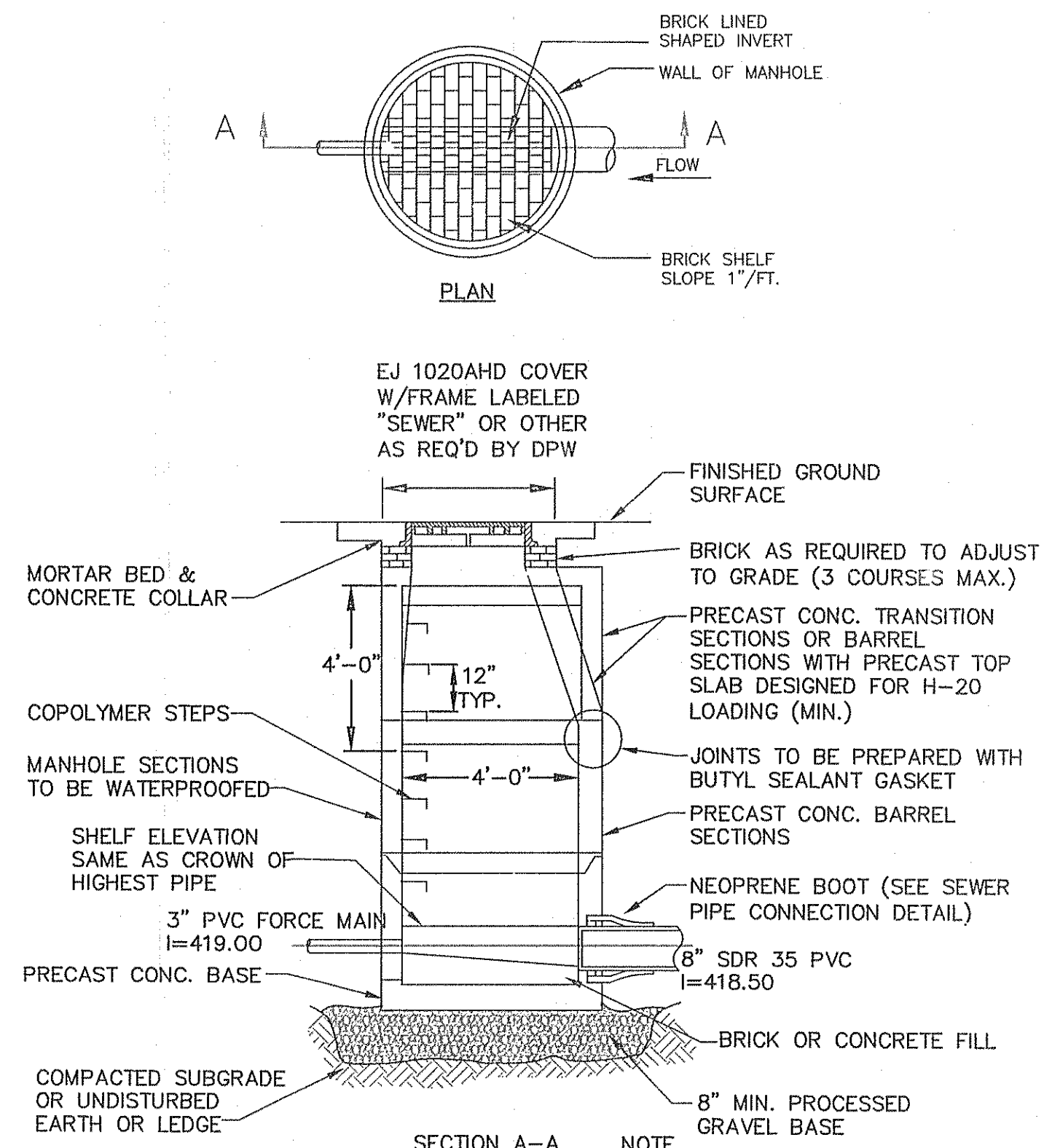
NOT TO SCALE

PUMP NOTES:

- ALARM TO BE WIRED TO A SEPARATE CIRCUIT FROM PUMP CIRCUITS.
- PUMP CONTROL PANEL TO HAVE A RUN TIME METER AND CYCLE COUNTER FOR EACH PUMP. PUMPS SHALL ALTERNATE STARTUP.
- PUMP CONTROL PANEL TO HAVE AUDIO & VISUAL ALARMS AND BE MOUNTED IN A CLEARLY VISIBLE LOCATION INSIDE THE BUILDING.
- PUMPS TO BE INSTALLED WITH GOULDS DUPLEX STAINLESS STEEL SLIDE RAIL SYSTEM AND DISCHARGE PIPING INCLUDING WALL AND PUMP BRACKETS, QUICK DISCONNECTS, CHECK VALVES, LIFTING CABLES, BASE PLATES, GATE VALVES, UNIONS, PIPE NIPPLES AND TEE, MODELS A10-20 & H200 OR APPROVED EQUAL.
- PUMP CHAMBER TO BE 1,500 GALLON SEPTIC TANK BY SCITUATE PRECAST OR APPROVED EQUAL.
- PUMPS TO BE TWO (2) GOULD MODEL 3886WS10B 1.0 HP PUMPS WITH 2" DISCHARGE OR APPROVED EQUAL PUMP MOTORS TO BE 3-PHASE IF 3-PHASE POWER IS READILY AVAILABLE.
- EACH PUMP TO HAVE A DISCHARGE LINE WITH SEPARATE CHECK VALVE, QUICK DISCONNECT, AND GATE VALVE.
- FORCE MAIN TO HAVE 4' MIN. COVER.



NOT TO SCALE



SEWER FORCE MAIN MANHOLE

NOT TO SCALE

NOTE: SEWER MANHOLES THAT ARE MORE THAN 14' OR DEEPER SHALL HAVE AN EXTENDED BASE STRUCTURE.

HERITAGE DESIGN GROUP

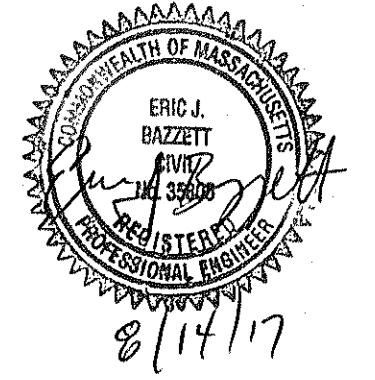
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REVISIONS

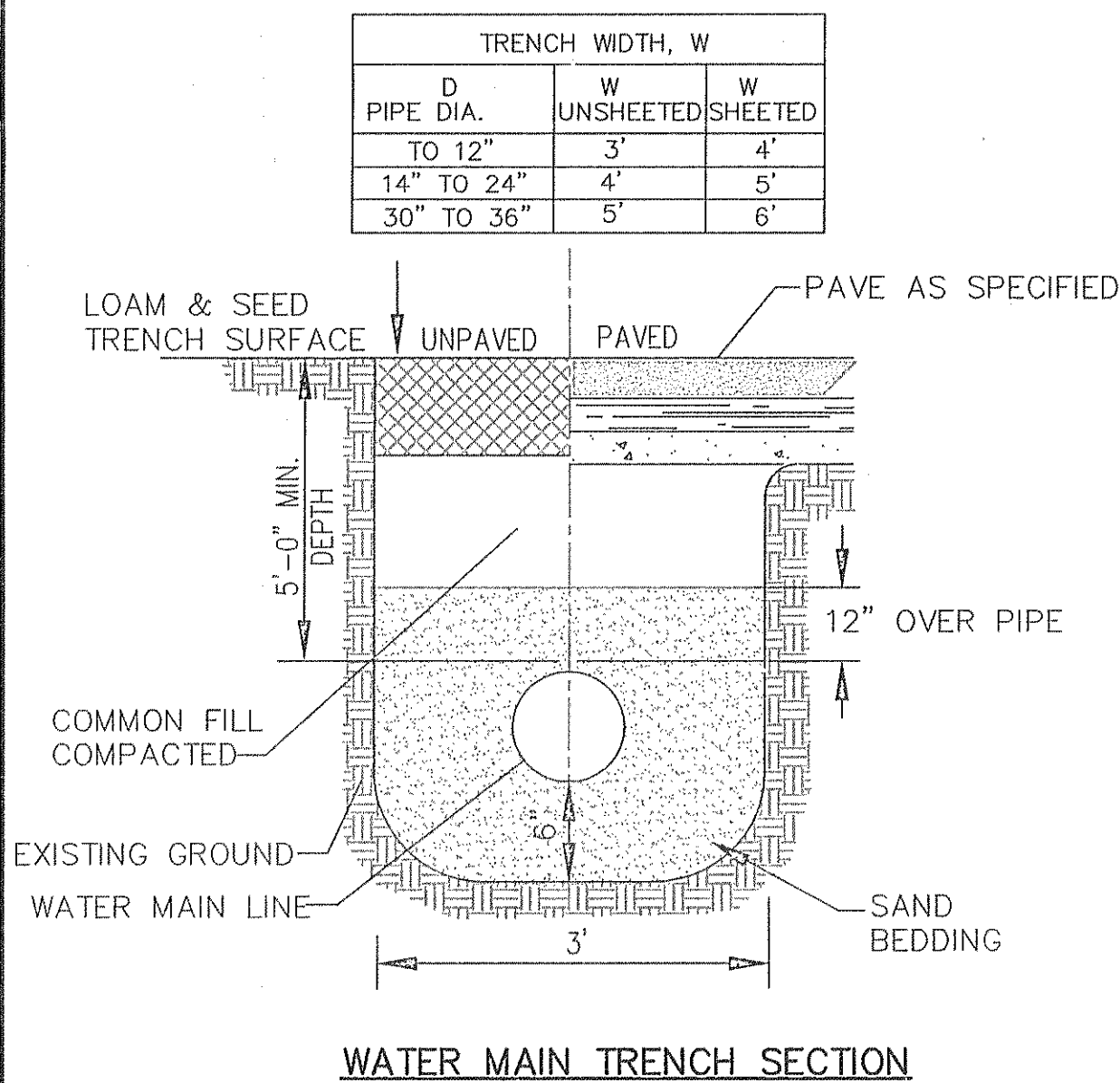
NO.	DATE	DESCRIPTION	BY
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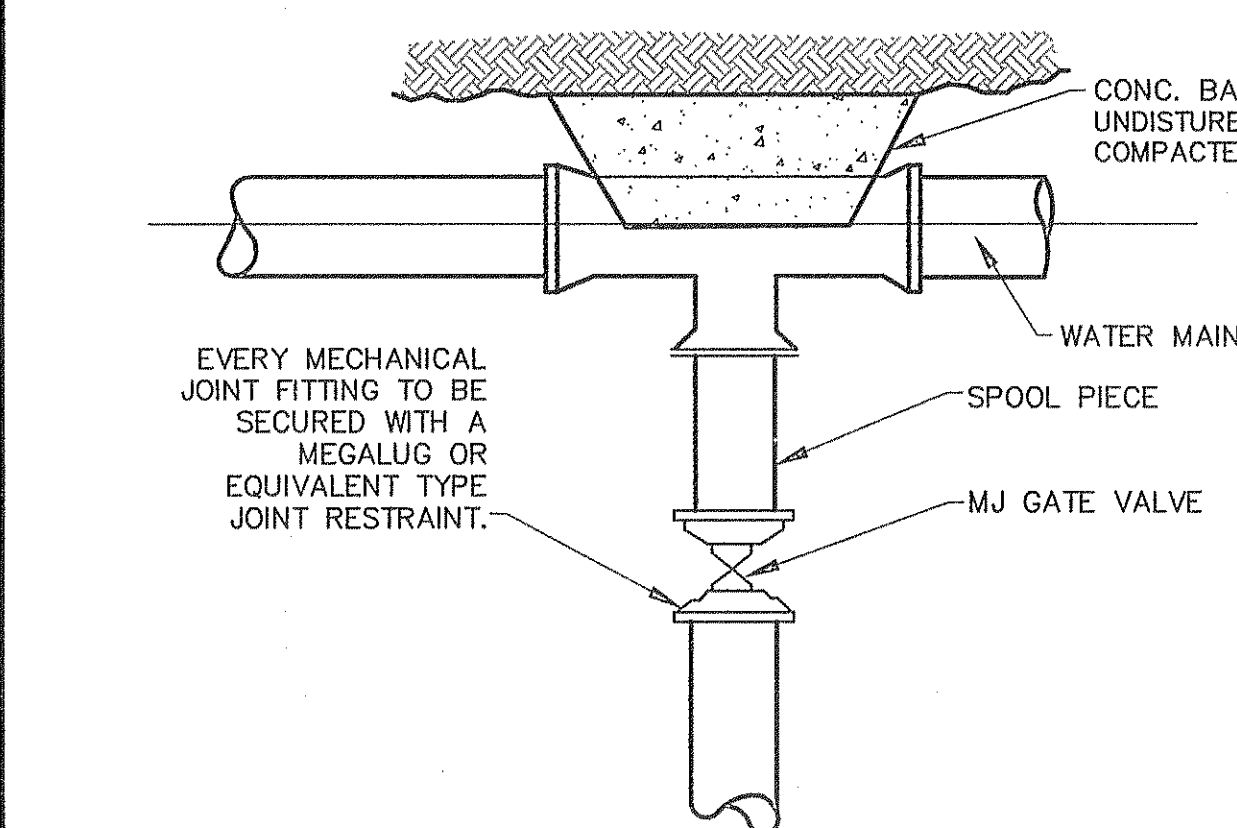
SCALE: 1" = 40' DATE: May 8, 2017

JOB NUMBER:	2016-063	DRAWING FILE NAME:	-SP1
DRAWN BY:	EJB	CHECKED BY:	MEA

CONSTRUCTION DETAILS 2
SHEET 12 OF 13



WATER MAIN TRENCH SECTION

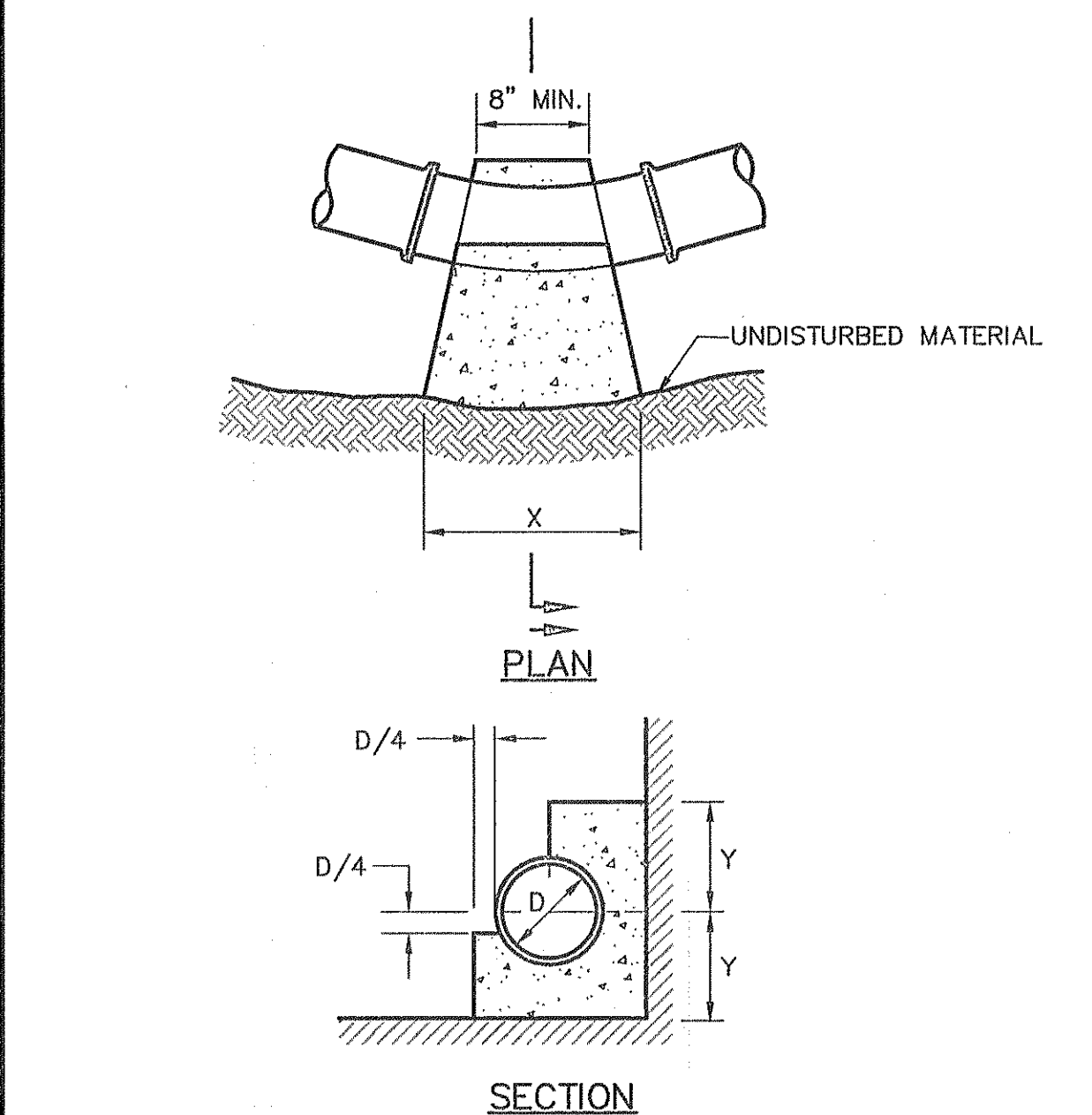


TYPICAL VALVE CONNECTION-RESTRAINED JOINT TEE



WATER SUPPLY DETAILS

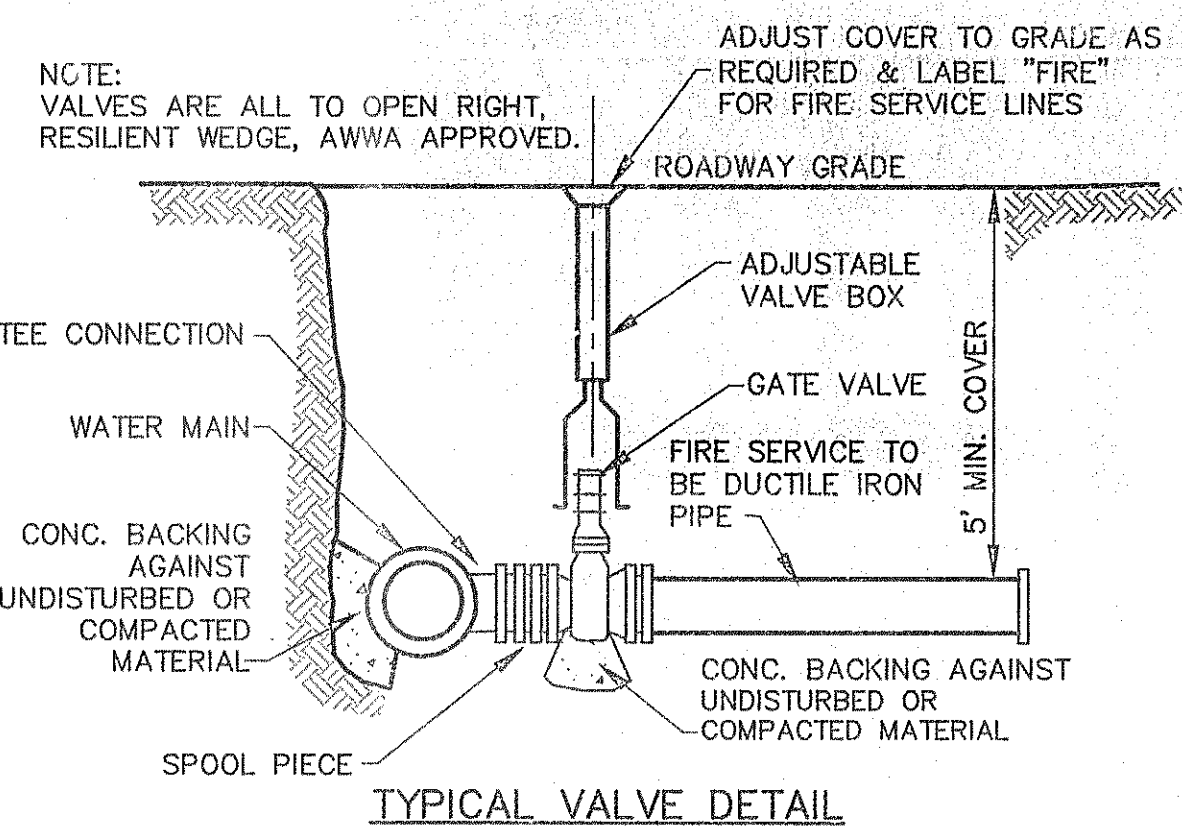
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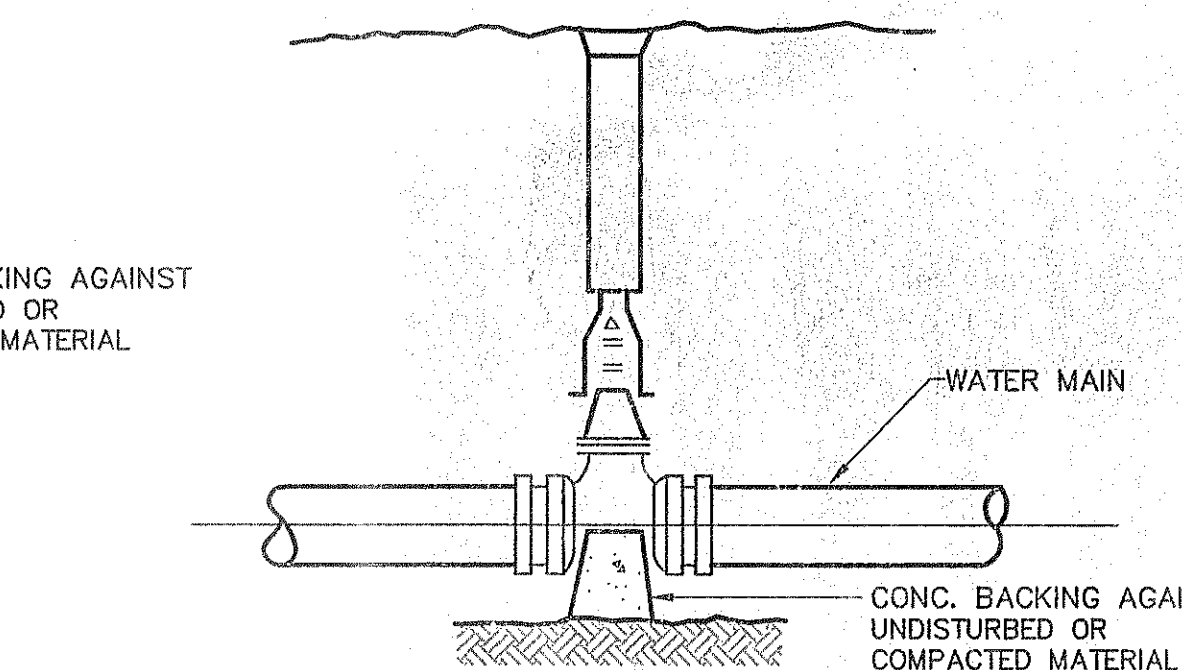
BENDS AND SIZE OF MAINS									
11" BEND				22 1/2° BEND				45° BEND	
D	4"	6"	8"	4"	6"	8"	4"	6"	8"
X	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
Y	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"

- NOTE:
1. DIMENSIONS FOR THRUST BLOCKS ARE MINIMUM.
2. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.
3. ALL CONCRETE SHALL BE CLASS 3500 P.S.I. IN 28 DAYS.

THRUST BLOCKS
NOT TO SCALE



TYPICAL VALVE DETAIL



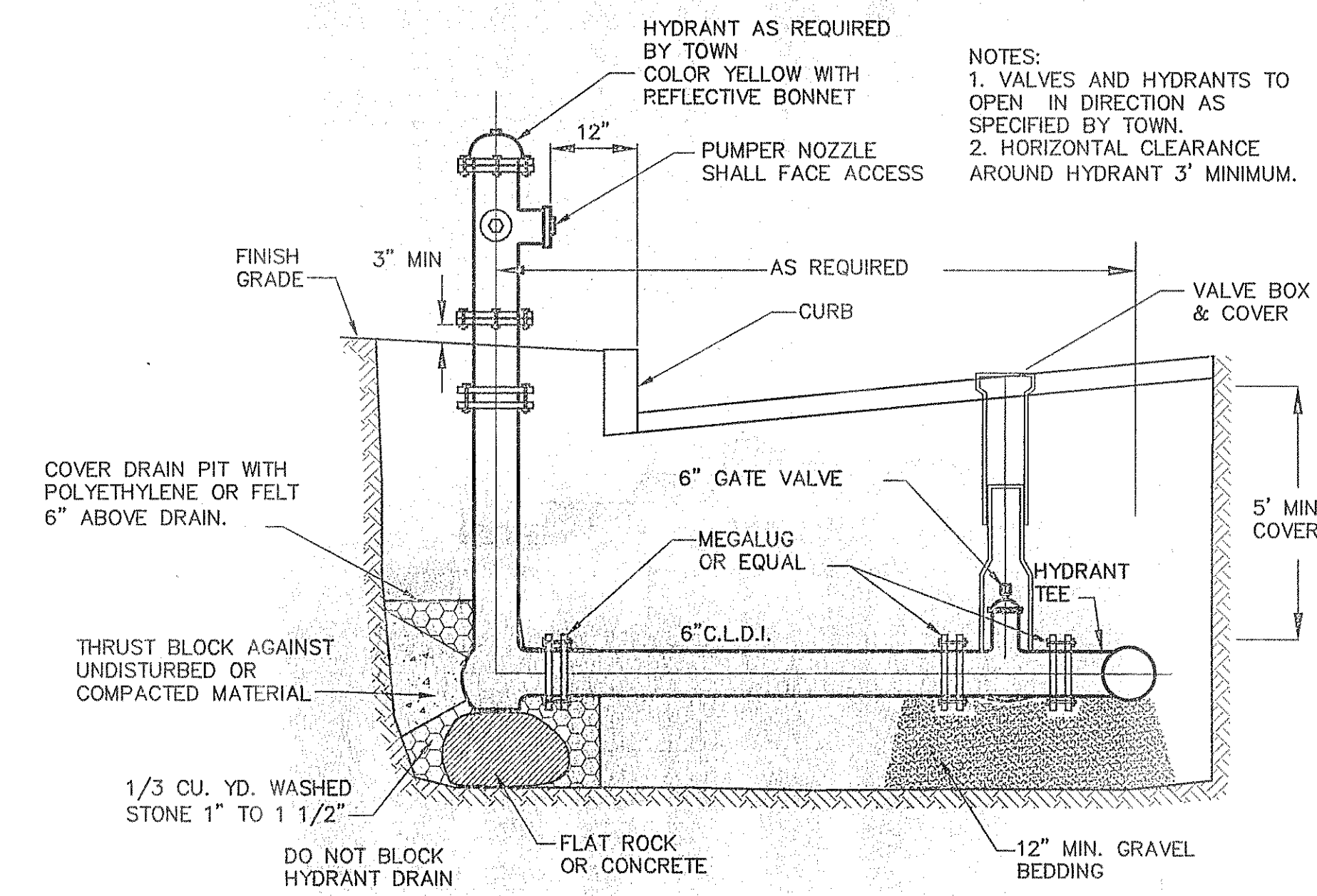
VALVE BEARING AREAS

TABLE OF BEARING AREAS IN S.F. AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS

SIZE OF MAIN (IN.)	45° BEND	TEES & PLUGS	22 1/2° BEND
8" & LESS	8	10	8
10" & 12"	22	16	13

WATER SUPPLY DETAILS

NOT TO SCALE



HYDRANT BRANCH ASSEMBLY
NOT TO SCALE

LAREDO SERIES

LMC-30LEDs

SPECIFICATIONS

Intended Use:
Full cut-off LED compliant perimeter or entry lighting for 10-100 mounting heights that require high light output and maximum energy efficiency. Laredo LMC-30 LED wallpack provides free installation with 100% or no maintenance and up to 100% energy savings. LMC-30 for outdoor, hazardous, incandescent, and outdoor applications.

Construction:
Die-cast aluminum housing and door. Rugged design protects internal components and provides excellent thermal management for over 70,000 hours maintenance-free operation. LMC-30 LED wallpack provides free installation with 100% or no maintenance and up to 100% energy savings. LMC-30 for outdoor, hazardous, incandescent, and outdoor applications.

Optical/Electrical:
LMC-30 LED wallpack delivers up to 7500 lumens at 700-1000 ft and up to 3400 lumens at 3500 ft. Variety of color temperatures - 3000K, 4000K, and 5000K. High CRI (90+) provides excellent color rendition with up to 100 lumens per watt efficiency.

LMC-30 LED Egress Wallpack:
Designed to meet strict 16 minimum requirements. At 125 mounting height 16 candelas per foot, with wall beyond the 10-foot standard, no night, external test button, 120V or 277V only. Rated -20° C to 35° C.

Warranty:
Five year limited warranty for more information visit: <http://www.spauldinglighting.com/warranty/>

PRODUCT IMAGE(S)

LMC-30LU

LMC-30LU Motion Sensor

LMC-30LU DBU

DIMENSIONS

A: 16.0" (406 mm)
B: 12.125" (308 mm)
C: 9.9" (229 mm)

WALLPACK LIGHTING

M3 - Mitre" Wall Sconce | TYPE

- Full cut-off
- Fluorescent throw reflector
- Egress applications
- Cast aluminum construction
- Molded memory retention silicone gaskets
- Wendal regulation
- Powder coat finish in 13 standard colors with a polymer primer color

1. LUMINAIRE	2. COLOR	3. OPTIONS
1. LUMINAIRE M3-CE (160 lumens @ 125 ft @ 277V, electronic ballast for use with 2, 3, 4, 5, 6, 8, 10, 12, 15, 18, 24, 30, 36, 48, 60, 72, 90, 100, 120, 150, 180, 240, 300, 360, 480, 600, 720, 900, 1000, 1200, 1500, 1800, 2400, 3000, 3600, 4800, 6000, 7200, 9000, 10000, 12000, 15000, 18000, 24000, 30000, 36000, 48000, 60000, 72000, 90000, 100000, 120000, 150000, 180000, 240000, 300000, 360000, 480000, 600000, 720000, 900000, 1000000, 1200000, 1500000, 1800000, 2400000, 3000000, 3600000, 4800000, 6000000, 7200000, 9000000, 10000000, 12000000, 15000000, 18000000, 24000000, 30000000, 36000000, 48000000, 60000000, 72000000, 90000000, 100000000, 120000000, 150000000, 180000000, 240000000, 300000000, 360000000, 480000000, 600000000, 720000000, 900000000, 1000000000, 1200000000, 1500000000, 1800000000, 2400000000, 3000000000, 3600000000, 4800000000, 6000000000, 7200000000, 9000000000, 10000000000, 12000000000, 15000000000, 18000000000, 24000000000, 30000000000, 36000000000, 48000000000, 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